

---

Subject: OT - Global warming alternative opinion movie - fascinating!

Posted by [Bill Lorentzen](#) on Sat, 31 Mar 2007 20:26:02 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

<http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>

It's a British documentary showing another viewpoint about global warming and CO2. It's a viewpoint that is different from that of the man who invented the internet...

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Don Nafe](#) on Sat, 31 Mar 2007 20:55:02 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

The man who invented the internet wouldn't know a scientific fact if it was weighed down with 2000 lb weight and dropped on his chicken little head!

DOn

"Bill Lorentzen" <[bill@lorentzen.ws](mailto:bill@lorentzen.ws)> wrote in message [news:460ec4f9@linux...](mailto:news:460ec4f9@linux...)

> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>

>

> It's a British documentary showing another viewpoint about global warming

> and CO2. It's a viewpoint that is different from that of the man who

> invented the internet...

>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [gene lennon](#) on Sat, 31 Mar 2007 21:44:43 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Timothy F. Ball is a well-known PROFESSIONAL global warming skeptic. He started a non-profit in Canada (the Natural Resources Stewardship Project) from which he and Tom Harris (NRSP head) are well paid.

The Canadian federal Lobbyists Registration System indicates that High Park's clients (NRSP) include the Canadian Electricity Association and the Canadian Gas Association.

The Toronto Star Newspapers have done several articles outing the NRSP as a shill for Canadian energy giants.

Do a little research before you jump on board the energy-backed misinformation train.

Some info here:

[http://en.wikipedia.org/wiki/Timothy\\_F.\\_Ball](http://en.wikipedia.org/wiki/Timothy_F._Ball)

[http://en.wikipedia.org/wiki/Natural\\_Resources\\_Stewardship\\_P roject](http://en.wikipedia.org/wiki/Natural_Resources_Stewardship_P roject)

These people will never stop finding people willing to take money to spread the falsehoods.

Gene

"Bill Lorentzen" <bill@lorentzen.ws> wrote:

> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related& amp;search=>

>

>It's a British documentary showing another viewpoint about global warming

>and CO2. It's a viewpoint that is different from that of the man who

>invented the internet...

>

>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [dc\[3\]](#) on Sat, 31 Mar 2007 21:48:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

Gene,

You're going to have to do better than that. Character assassination is a pretty poor response to the amount of science in that piece.

best,

DC

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>

>Timothy F. Ball is a well-known PROFESSIONAL global warming skeptic. He started

>a non- profit in Canada (the Natural Resources Stewardship Project) from

>which he and Tom Harris (NRSP head) are well paid.

>

>The Canadian federal Lobbyists Registration System indicates that High Park's

>clients (NRSP) include the Canadian Electricity Association and the Canadian

>Gas Association.

>

>The Toronto Star Newspapers have done several articles outing the NRSP as  
>a shill for Canadian energy giants.  
>  
>Do a little research before you jump on board the energy-backed misinformation  
>train.  
>  
>Some info here:  
>[http://en.wikipedia.org/wiki/Timothy\\_F.\\_Ball](http://en.wikipedia.org/wiki/Timothy_F._Ball)  
>  
> [http://en.wikipedia.org/wiki/Natural\\_Resources\\_Stewardship\\_P roject](http://en.wikipedia.org/wiki/Natural_Resources_Stewardship_Project)  
>  
>These people will never stop finding people willing to take money to spread  
>the falsehoods.  
>  
>Gene  
>  
>"Bill Lorentzen" <bill@lorentzen.ws> wrote:  
>> [http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related& amp;search=](http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=)  
>>  
>>It's a British documentary showing another viewpoint about global warming  
>  
>>and CO2. It's a viewpoint that is different from that of the man who  
>>invented the internet..  
>>  
>>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [gene lennon](#) on Sat, 31 Mar 2007 22:02:11 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"DC" <dc@spammersinhell.com> wrote:  
>

in the movie have take legal action against the producers for editing and  
changing their actual comments recorded.

Mr. Steven Green  
Head of Production  
Wag TV  
2D Leroy House  
436 Essex Road  
London N1 3QP

10 March 2007

Dear Mr. Green:

I am writing to record what I told you on the telephone yesterday about your Channel 4 film "The Global Warming Swindle." Fundamentally, I am the one who was swindled---please read the email below that was sent to me (and re-sent by you). Based upon this email and subsequent telephone conversations, and discussions with the Director, Martin Durkin, I thought I was being asked to appear in a film that would discuss in a balanced way the complicated elements of understanding of climate change---in the best traditions of British television. Is there any indication in the email evident to an outsider that the product would be so tendentious, so unbalanced?

I was approached, as explained to me on the telephone, because I was known to have been unhappy with some of the more excitable climate-change stories in the British media, most conspicuously the notion that the Gulf Stream could disappear, among others. When a journalist approaches me suggesting a "critical approach" to a technical subject, as the email states, my inference is that we are to discuss which elements are contentious, why they are contentious, and what the arguments are on all sides. To a scientist, "critical" does not mean a hatchet job---it means a thorough-going examination of the science. The scientific subjects described in the email, and in the previous and subsequent telephone conversations, are complicated, worthy of exploration, debate, and an educational effort with the public. Hence my willingness to participate. Had the words "polemic", or "swindle" appeared in these preliminary discussions, I would have instantly declined to be involved.

I spent hours in the interview describing many of the problems of understanding the ocean in climate change, and the ways in which some of the more dramatic elements get exaggerated in the media relative to more realistic, potentially truly catastrophic issues, such as the implications of the oncoming sea level rise. As I made clear, both in the preliminary discussions, and in the interview itself, I believe that global warming is a very serious threat that needs equally serious discussion and no one seeing this film could possibly deduce that.

What we now have is an out-and-out propaganda piece, in which there is not even a gesture toward balance or explanation of why many of the extended inferences drawn in the film are not widely accepted by the scientific community. There are so many examples, it's hard to know where to begin, so I will cite only one:

a speaker asserts, as is true, that carbon dioxide is only a small fraction of the atmospheric mass. The viewer is left to infer that means it couldn't really matter. But even a beginning meteorology student could tell you that the relative masses of gases are irrelevant to their effects on radiative balance. A director not intending to produce pure propaganda would have tried to eliminate that piece of disinformation.

An example where my own discussion was grossly distorted by context: I am? shown explaining that a warming ocean could expel more carbon dioxide than it absorbs -- thus exacerbating the greenhouse gas buildup in the atmosphere and hence worrisome.? It was used in the film, through its context, to imply that CO2 is all natural, coming from the ocean, and that therefore the human element is irrelevant. This use of my remarks, which are literally what I said, comes close to fraud.

I have some experience in dealing with TV and print reporters and do understand something of the ways in which one can be misquoted, quoted out of context, or otherwise misinterpreted. Some of that is inevitable in the press of time or space or in discussions of complicated issues. Never before, however, have I had an experience like this one. My appearance in the "Global Warming Swindle" is deeply embarrassing, and my professional reputation has been damaged. I was duped---an uncomfortable position in which to be.

At a minimum, I ask that the film should never be seen again publicly with my participation included. Channel 4 surely owes an apology to its viewers, and perhaps WAGTV owes something to Channel 4. I will be taking advice as to whether I should proceed to make some more formal protest.

Sincerely,

Carl Wunsch  
Cecil and Ida Green Professor of  
?? Physical Oceanography  
Massachusetts Institute of Technology

cc: Hamish Mykura, Channel 4

(Hard copy to follow)

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberatelyone sided polemic BS

Posted by [Jamie K](#) on Sat, 31 Mar 2007 22:11:48 GMT

[View Forum Message](#) <> [Reply to Message](#)

The fossil fuels lobby would love to make this about Al Gore instead of about global warming. Because then anyone who doesn't happen like Al Gore might be more inclined to buy their spin.

If you don't happen to like Al Gore, check out the actual science. Try and avoid the spin from the fossil fuels lobby if you can. Stick with facts and assess the risks yourself.

Here are a couple of useful web sites:

<http://www.realclimate.org/>

[http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)

Cheers,

-Jamie

[www.JamieKrutz.com](http://www.JamieKrutz.com)

Don Nafe wrote:

> The man who invented the internet wouldn't know a scientific fact if it was  
> weighed down with 2000 lb weight and dropped on his chicken little head!

>

> DOn

>

> "Bill Lorentzen" <[bill@lorentzen.ws](mailto:bill@lorentzen.ws)> wrote in message <news:460ec4f9@linux...>

>> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related&search=>

>>

>> It's a British documentary showing another viewpoint about global warming

>> and CO2. It's a viewpoint that is different from that of the man who

>> invented the internet...

>>

>

>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one-sided polemic

Posted by [Jamie K](#) on Sat, 31 Mar 2007 22:20:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

It's a viewpoint that ignores the main body of peer-reviewed scientific evidence for the sake of sensationalism. It was done that way deliberately by the producers, with no attempt at an objective look at the actual scientific evidence.

Google it to check out the story behind it. Fair and balanced it ain't.

I do like the breathless announcer, fast cuts and dramatic music. It's always fun to see a one-sided polemic that ironically accuses others of being one-sided. I doubt anyone here is gullible enough to take it as an objective authority.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

Bill Lorentzen wrote:

> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>  
> It's a British documentary showing another viewpoint about global warming  
> and CO2. It's a viewpoint that is different from that of the man who  
> invented the internet...  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [dc\[3\]](#) on Sat, 31 Mar 2007 22:24:14 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Here's something else from Carl:

<http://www.royalsoc.ac.uk/page.asp?id=4688&tip=1>

Read it and see how far his views diverge from Gore's and despite the dispute over his appearance in the film, you will see that Carl is not much on your side.

more

[http://observer.guardian.co.uk/uk\\_news/story/0,,2031455,00.html](http://observer.guardian.co.uk/uk_news/story/0,,2031455,00.html)

Here is a response to the smear campaign against the movie from the filmmaker himself. There is a direct response to the point you raised.

[http://www.nrsp.com/NRSP-Media/Audio\\_Wave/Martin%20Durkin-15-03-07-Charles%20Adler.wav](http://www.nrsp.com/NRSP-Media/Audio_Wave/Martin%20Durkin-15-03-07-Charles%20Adler.wav)

DC

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating deliberately one sided polemic BS

Posted by [Deej \[4\]](#) on Sat, 31 Mar 2007 22:48:05 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Global warming is very real IMO.

Even the people in the fossil fuels business (me, for instance) know that they produce sulphur based pollutants and CO<sub>2</sub>. The only way, IMHO, to explain away global warming is to explaining away the theory that CO<sub>2</sub> doesn't cause it. I ain't buying that one. Those who try to compare what is happening now to what has happened in the past with climate change are missing one serious fundamental.....never in the past have there been so people on this planet burning so much carbon and never before have we had the science to live as long as we do now, and for our spawn to survive the in such staggering numbers. Also, if you stop and think about it, up until 50 years ago, we had major disease epidemics that culled the global populations drastically and systematically and some pretty devastating wars on a fairly regular basis that also culled the population, especially in continental Europe and Asia, thus delaying the exponential population explosion that we have seen over the last 30 years or so. In 1970, the world population was 39 billion and change. right now it's estimated to exceed 67 billion. All of these folks are competing for and using vcarbon based energy resources (and farting on a regular basis ;o).

The solutions we're proposing right now are too little too late (again IMO) There are ways to reduce energy consumption but this will add to the costs that none of us want to pay. At some point, diminishing returns will be reached and alternative energy sources will start look more competitive. The bigger problem is that the point of diminishing returns is quickly being reached as far as global supply is concerned (yeah....that peak oil voodoo...too bad it's as real as the day is long). This is already the driving factor in our effort to survive in the brave new global economy. It's gonna be expensive no matter what though. We are already starting to see the price of products based on corn as food to rise as the shift to ethanol starts to ramp up. the only way to sustain anything like the economy we have right now and become energy independent would be to build new refineries here,, build coal fired power plants, nuclear energy and drill every drop and bubble of oil and natural gas that we have here within our continental soveriegnty while rolling huge amount of the revenue from the sale of that to alternative energy R&D. Big problem there.....the energy interests won't do it and the environmentalists won't do it so we're gonna be hosed in 20 years, if not \*much sooner\*.

the real problem is that there are just too many of \*us\*. I think we're getting ready so see some stuff right out of the worst imaginable horror movie that the most twisted mind could dream up.

Mother nature has always had a way of levelling our karma and our doomsday



religiousity will do the rest. I've always believed that things happen if enough energy is directed toward the particular end one is trying to achieve. Well.....lots of folks believe that Armageddon is inevitable and by god, it's our duty to make sure that it happens the \*right\* way so that you go to hell and I don't.

shit!!!!....where'd I put my meds?

;oP

"Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...

>

> The fossil fuels lobby would love to make this about Al Gore instead of  
> about global warming. Because then anyone who doesn't happen like Al Gore  
> might be more inclined to buy their spin.

>

> If you don't happen to like Al Gore, check out the actual science. Try and  
> avoid the spin from the fossil fuels lobby if you can. Stick with facts  
> and assess the risks yourself.

>

> Here are a couple of useful web sites:

>

> <http://www.realclimate.org/>

>

> [http://www.ucsus.org/global\\_warming/science/](http://www.ucsus.org/global_warming/science/)

>

> Cheers,

> -Jamie

> [www.JamieKruz.com](http://www.JamieKruz.com)

>

>

> Don Nafe wrote:

>> The man who invented the internet wouldn't know a scientific fact if it  
>> was weighed down with 2000 lb weight and dropped on his chicken little  
>> head!

>>

>> DOn

>>

>> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message

>> news:460ec4f9@linux...

>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>

>>>

>>> It's a British documentary showing another viewpoint about global  
>>> warming and CO2. It's a viewpoint that is different from that of the man  
>>> who invented the internet...  
>>>  
>>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [gene lennon](#) on Sat, 31 Mar 2007 22:54:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

here and point out that the majority of mathematicians feel that  $2 + 2 = 4$ .

Breast implants reduce cancer. I love it.

You should read a little about Martin Durkin, the man you are defending.

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [dc\[3\]](#) on Sat, 31 Mar 2007 23:09:09 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Gene,

No matter what we say to each other here, the whole thing is out of our hands. What troubles me is that we who grew up in the 1960's learned to rebel against Nixon, but we drew the line at Gore and Hillary didn't we? How did we get so many sacred cows?

What if these scientists are right?

Remember, in the 1970's the same people were squealing about global cooling. Worse, the ice core evidence shows that increases in carbon dioxide level historically follows warming not precedes it. Carbon may not be the problem.

DC

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote:  
>

>here and point out that the majority of mathematicians feel that  $2 + 2 =$   
>4.  
>  
>Breast implants reduce cancer. I love it.  
>  
>You should read a little about Martin Durkin, the man you are defending.  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS

Posted by [Don Nafe](#) on Sat, 31 Mar 2007 23:19:18 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I'm not about to get into an argument about Global warming...but I do remember my Grade 10 science and the chemical make up of the atmosphere and from that perspective alone Global Warming being caused by CO2 doesn't make any sense and it makes even less sense when you use the numbers the IPCC uses to prove that CO2 emissions are the cause...bad science...plain and simple.

On the otherhand, I reduce, reuse and recycle and have spent thousands of dollars making my home energy efficient and drive as clean and efficient a car as I can afford...I'm doing my part and will continue to due so...but not because of scare tactics and bullshit science but because it's the smart thing to do.

"Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...

>  
> The fossil fuels lobby would love to make this about Al Gore instead of  
> about global warming. Because then anyone who doesn't happen like Al Gore  
> might be more inclined to buy their spin.  
>  
> If you don't happen to like Al Gore, check out the actual science. Try and  
> avoid the spin from the fossil fuels lobby if you can. Stick with facts  
> and assess the risks yourself.  
>  
> Here are a couple of useful web sites:  
>  
> <http://www.realclimate.org/>  
>  
> [http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)  
>  
> Cheers,

> -Jamie  
> www.JamieKruz.com  
>  
>  
> Don Nafe wrote:  
>> The man who invented the internet wouldn't know a scientific fact if it  
>> was weighed down with 2000 lb weight and dropped on his chicken little  
>> head!  
>>  
>> DOn  
>>  
>> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
>> news:460ec4f9@linux...  
>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>  
>>> It's a British documentary showing another viewpoint about global  
>>> warming and CO2. It's a viewpoint that is different from that of the man  
>>> who invented the internet...  
>>>  
>>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Don Nafe](#) on Sat, 31 Mar 2007 23:30:32 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

And speaking about Canadians....David Susuki used to be common sense environmentalist - highly respected and a good messenger for science, but after seeing a few of his intervires of late he has thrown science roght out the friggin window and become a fear mongering shill for the left.

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message  
news:460ed64b\$1@linux...  
>  
> Timothy F. Ball is a well-known PROFESSIONAL global warming skeptic. He  
> started  
> a non- profit in Canada (the Natural Resources Stewardship Project) from  
> which he and Tom Harris (NRSP head) are well paid.  
>  
> The Canadian federal Lobbyists Registration System indicates that High  
> Park's  
> clients (NRSP) include the Canadian Electricity Association and the  
> Canadian  
> Gas Association.

>  
> The Toronto Star Newspapers have done several articles outing the NRSP as  
> a skill for Canadian energy giants.  
>  
> Do a little research before you jump on board the energy-backed  
> misinformation  
> train.  
>  
> Some info here:  
> [http://en.wikipedia.org/wiki/Timothy\\_F.\\_Ball](http://en.wikipedia.org/wiki/Timothy_F._Ball)  
>  
> [http://en.wikipedia.org/wiki/Natural\\_Resources\\_Stewardship\\_Project](http://en.wikipedia.org/wiki/Natural_Resources_Stewardship_Project)  
>  
> These people will never stop finding people willing to take money to  
> spread  
> the falsehoods.  
>  
> Gene  
>  
> "Bill Lorentzen" <bill@lorentzen.ws> wrote:  
>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>  
>>It's a British documentary showing another viewpoint about global warming  
>  
>>and CO2. It's a viewpoint that is different from that of the man who  
>>invented the internet...  
>>  
>>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS

Posted by [Deej \[4\]](#) on Sat, 31 Mar 2007 23:39:07 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"Don Nafe" <dnafe@magma.ca> wrote in message news:460eed97\$1@linux...  
> I'm not about to get into an argument about Global warming...but I do  
> remember my Grade 10 science and the chemical make up of the atmosphere  
> and from that perspective alone Global Warming being caused by CO2 doesn't  
> make any sense and it makes even less sense when you use the numbers the  
> IPCC uses to prove that CO2 emissions are the cause...bad science...plain  
> and simple.  
>  
> On the otherhand, I reduce, reuse and recycle and have spent thousands of  
> dollars making my home energy efficient and drive as clean and efficient a  
> car as I can afford...I'm doing my part and will continue to do so...but  
> not because of scare tactics and bullshit science but because it's the

> smart thing to do.

I think that's to be applauded and I don't disagree that some of the models that are being put out there (by both sides) are flawed, but to me, it's one of those obvious things and I just don't get how something so relevant as global population can be overlooked. It's as idiotic as when I hear people saying that we \*started\* a war in Iraq when the war that was started by Sadaam never ended. The fundamental facts are being overlooked for the sake of political posturing while a very real disaster looms on the horizon because there is no commonality of purpose..

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Don Nafe](#) on Sat, 31 Mar 2007 23:39:46 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote in message [news:460ef03c@linux...](mailto:news:460ef03c@linux...)  
> And speaking about Canadians....David Suzuki used to be common sense  
> environmentalist - highly respected and a good messenger for science, but  
> after seeing a few of his interviews of late he has thrown science right  
> out the friggin window and become a fear mongering shill for the left.

Man I have got to learn to type ARGH!!!

>  
> "Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote in message  
> [news:460ed64b\\$1@linux...](mailto:news:460ed64b$1@linux...)  
>>  
>> Timothy F. Ball is a well-known PROFESSIONAL global warming skeptic. He  
>> started  
>> a non- profit in Canada (the Natural Resources Stewardship Project) from  
>> which he and Tom Harris (NRSP head) are well paid.  
>>  
>> The Canadian federal Lobbyists Registration System indicates that High  
>> Park's  
>> clients (NRSP) include the Canadian Electricity Association and the  
>> Canadian  
>> Gas Association.  
>>  
>> The Toronto Star Newspapers have done several articles outing the NRSP as  
>> a shill for Canadian energy giants.  
>>  
>> Do a little research before you jump on board the energy-backed  
>> misinformation  
>> train.

>>  
>> Some info here:  
>> [http://en.wikipedia.org/wiki/Timothy\\_F.\\_Ball](http://en.wikipedia.org/wiki/Timothy_F._Ball)  
>>  
>> [http://en.wikipedia.org/wiki/Natural\\_Resources\\_Stewardship\\_Project](http://en.wikipedia.org/wiki/Natural_Resources_Stewardship_Project)  
>>  
>> These people will never stop finding people willing to take money to  
>> spread  
>> the falsehoods.  
>>  
>> Gene  
>>  
>> "Bill Lorentzen" <bill@lorentzen.ws> wrote:  
>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>  
>>>It's a British documentary showing another viewpoint about global warming  
>>  
>>>and CO2. It's a viewpoint that is different from that of the man who  
>>>invented the internet...  
>>>  
>>>  
>>  
>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS

Posted by [Don Nafe](#) on Sun, 01 Apr 2007 00:00:39 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I understand what you're saying DJ and I'm in no way saying that humans aren't contributing to greenhouse gases..my only problem is that greenhouse gases make up such a small (almost insignificant) portion of our atmosphere that I personally find it hard to believe that Global Warming; if there is such a thing happening, is being driven by human activity

DOn

"DJ" <[www.aarrrrggghhh!!!.com](http://www.aarrrrggghhh!!!.com)> wrote in message news:460ef23c\$1@linux...

>

> "Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote in message news:460eed97\$1@linux...

>> I'm not about to get into an argument about Global warming...but I do

>> remember my Grade 10 science and the chemical make up of the atmosphere

>> and from that perspective alone Global Warming being caused by CO2

>> doesn't make any sense and it makes even less sense when you use the

>> numbers the IPCC uses to prove that CO2 emissions are the cause...bad

>> science...plain and simple.

>>

>> On the otherhand, I reduce, reuse and recycle and have spent thousands of

>> dollars making my home energy efficient and drive as clean and efficient

>> a car as I can afford...I'm doing my part and will continue to due

>> so...but not because of scare tactics and bullshit science but because

>> it's the smart thing to do.

>

>

> I think that's to be applauded and I don't disagree that some of the

> models that are being put out there (by both sides) are flawed, but to me,

> it's one of those obvious things and I just don't get how something so

> relevant as global population can be overlooked. It's as idiotic as when I

> hear people saying that we \*started\* a war in Iraq when the war that was

> started by Sadaam never ended. The fundamental facts are being overlooked

> for the sake of political posturing while a very real disaster looms on

> the horizon because there is no commonality of purpose..

>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Sarah](#) on Sun, 01 Apr 2007 02:27:46 GMT

[View Forum Message](#) <> [Reply to Message](#)

Bill, Bill, Bill . . . how could you? You realize this is going to go on for days now, people throwing their favorite scientists at each other, spinning off into barely related left vs right sub-debates, and in the end, everyone will continue to believe exactly what they WANT to believe.

That being said, I guess I'll get my 2 cents in: first of all, this slick little film was written and directed by well-known anti-environmentalist Martin Durkin, who is in trouble now with some of the experts he used in the film for misrepresenting them by editing their sequences.

The most amusing part of this was his answer to the "better safe than sorry" approach -- that if by fighting global warming we doom the Third World to poverty by preventing development. AS IF the anti-environmentalists and the corporations funding the global warming deniers give a flying f\*\*\* about people in the Third World for anything other than another market to exploit. Yes, we all know that without the burning of fossil fuels, there is no possibility of progress. Gimme a friggin' break.

Greed kills, people. Follow the money.

Sarah



"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...  
> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>  
> It's a British documentary showing another viewpoint about global warming  
> and CO2. It's a viewpoint that is different from that of the man who  
> invented the internet...  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Sarah](#) on Sun, 01 Apr 2007 02:29:28 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Oh, and by the way, here's some detail.  
[http://news.independent.co.uk/environment/climate\\_change/art icle2326210.ece](http://news.independent.co.uk/environment/climate_change/article2326210.ece)

S

"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...  
> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>  
> It's a British documentary showing another viewpoint about global warming  
> and CO2. It's a viewpoint that is different from that of the man who  
> invented the internet...  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS  
Posted by [Jamie K](#) on Sun, 01 Apr 2007 02:40:47 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:

> I'm not about to get into an argument about Global warming...but I do  
> remember my Grade 10 science and the chemical make up of the atmosphere and  
> from that perspective alone Global Warming being caused by CO2 doesn't make  
> any sense and it makes even less sense when you use the numbers the IPCC  
> uses to prove that CO2 emissions are the cause...bad science...plain and  
> simple.

Cool. This makes me think of three things:

- 1) Memes in our vocabulary.
- 2) Following the money.
- 3) Examining the scientific consensus.

## MEMES

Phrases like "bad science" and "junk science" are often used by PR flacks paid by fossil fuel lobbies. Previously those sorts of phrases were used by PR flacks paid by tobacco lobbies. It's an interesting connection...

From: <http://www.cbc.ca/fifth/denialmachine/index.html>

\*\*\*\*\*

"Who is keeping the debate of global warming alive?  
The documentary shows how fossil fuel corporations have kept the global warming debate alive long after most scientists believed that global warming was real and had potentially catastrophic consequences. It shows that companies such as Exxon Mobil are working with top public relations firms and using many of the same tactics and personnel as those employed by Phillip Morris and RJ Reynolds to dispute the cigarette-cancer link in the 1990s. Exxon Mobil sought out those willing to question the science behind climate change, providing funding for some of them, their organizations and their studies."

\*\*\*\*\*

## FOLLOWING THE MONEY

So as always, follow the money:

You can check out some of the connections here:

<http://www.exxonsecrets.org/>

## SCIENTIFIC CONSENSUS

The scientific consensus is actually pretty clear.

From: <http://www.sciencemag.org/cgi/content/full/306/5702/1686>

\*\*\*\*\*

"PCC is not alone in its conclusions. In recent years, all major scientific bodies in the United States whose members' expertise bears directly on the matter have issued similar statements. For example, the National Academy of Sciences report, Climate Change Science: An Analysis of Some Key Questions, begins: "Greenhouse gases are accumulating in Earth's atmosphere as a result of human activities, causing surface air temperatures and subsurface ocean temperatures to rise" [p. 1 in (5)]. The report explicitly asks whether the IPCC assessment is a fair summary

of professional scientific thinking, and answers yes: "The IPCC's conclusion that most of the observed warming of the last 50 years is likely to have been due to the increase in greenhouse gas concentrations accurately reflects the current thinking of the scientific community on this issue" [p. 3 in (5)].

Others agree. The American Meteorological Society (6), the American Geophysical Union (7), and the American Association for the Advancement of Science (AAAS) all have issued statements in recent years concluding that the evidence for human modification of climate is compelling (8).

The drafting of such reports and statements involves many opportunities for comment, criticism, and revision, and it is not likely that they would diverge greatly from the opinions of the societies' members. Nevertheless, they might downplay legitimate dissenting opinions. That hypothesis was tested by analyzing 928 abstracts, published in refereed scientific journals between 1993 and 2003, and listed in the ISI database with the keywords "climate change" (9).

The 928 papers were divided into six categories: explicit endorsement of the consensus position, evaluation of impacts, mitigation proposals, methods, paleoclimate analysis, and rejection of the consensus position. Of all the papers, 75% fell into the first three categories, either explicitly or implicitly accepting the consensus view; 25% dealt with methods or paleoclimate, taking no position on current anthropogenic climate change. Remarkably, none of the papers disagreed with the consensus position."

\*\*\*\*\*

And finally, here is the Bush administration's perspective on the IPCC report, from: <http://www.energy.gov/environment/4704.htm>

\*\*\*\*\*

"The Administration welcomes the Intergovernmental Panel on Climate Change report, which was developed through thousands of hours of research by leading U.S. and international scientists and informed by significant U.S. investments in advancing climate science research," U.S. Secretary of Energy Samuel Bodman said. "Climate change is a global challenge that requires global solutions. Through President Bush's leadership, the U.S. government is taking action to curb the growth of greenhouse gas emissions and encouraging the development and deployment of clean energy technologies here in the United States and across the globe."

\*\*\*\*\*

So we are at consensus, both scientific and political.

The discussion has moved on to what to do about the challenge of human influenced global warming.

> On the otherhand, I reduce, reuse and recycle and have spent thousands of  
> dollars making my home energy efficient and drive as clean and efficient a  
> car as I can afford...I'm doing my part and will continue to due so...but  
> not because of scare tactics and bullshit science but because it's the smart  
> thing to do.

Great!

Cheers,  
-Jamie  
www.JamieKruz.com

> "Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...  
>> The fossil fuels lobby would love to make this about Al Gore instead of  
>> about global warming. Because then anyone who doesn't happen like Al Gore  
>> might be more inclined to buy their spin.

>>  
>> If you don't happen to like Al Gore, check out the actual science. Try and  
>> avoid the spin from the fossil fuels lobby if you can. Stick with facts  
>> and assess the risks yourself.

>>  
>> Here are a couple of useful web sites:

>>  
>> <http://www.realclimate.org/>  
>>  
>> [http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)  
>>

>> Cheers,  
>> -Jamie  
>> www.JamieKruz.com  
>>

>>  
>> Don Nafe wrote:  
>>> The man who invented the internet wouldn't know a scientific fact if it  
>>> was weighed down with 2000 lb weight and dropped on his chicken little  
>>> head!

>>>  
>>> DOn  
>>>  
>>> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
>>> news:460ec4f9@linux...

>>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>>  
>>>> It's a British documentary showing another viewpoint about global  
>>>> warming and CO2. It's a viewpoint that is different from that of the man  
>>>> who invented the internet...  
>>>>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Sun, 01 Apr 2007 02:55:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

DC wrote:

> Remember, in the 1970's the same people were squealing  
> about global cooling.

That's pretty funny, Don. Who were those "same people" and what speech impediment caused the "squealing" that you think we all remember?

What I remember about the 70's is some pretty cool music.

Anyway, here's some info on the stock mid century global cooling objection.

From: <http://gristmill.grist.org/story/2006/11/4/14560/6189>

"Objection: There was global cooling in the '40s, '50s, and '60s, even while human greenhouse-gas emissions were rising. Clearly, temperature is not being driven by CO2.

Answer: None of the advocates of the theory of anthropogenic global warming claim that CO2 is the only factor controlling temperature in the ocean-atmosphere climate system. It is a large and complex system, responsive on many different timescales, subject to numerous forcings. AGW only makes the claim that CO2 is the primary driver of the warming trend seen over the last 100 years. This rise has not been smooth and steady -- nor would it be expected to be.

(graphic, go look at the link to see it)

If you look at the temperature record for the 1990s, you'll notice a sharp drop in '92, '93, and '94. This is the effect of massive amounts of SO2 ejected into the stratosphere by Mount Pinatubo's eruption. That doesn't mean CO2 took a holiday and stopped influencing global temperatures; it only means that the CO2 forcing was temporarily overwhelmed by another, opposite forcing.

The situation is similar to the cooling seen in the '40s and '50s.

During this period, the CO2 warming (a smaller forcing at the time) was temporarily overwhelmed by by other factors, perhaps foremost among them an increase in human particulates and aerosol pollution. Pollution regulations and improved technology saw a decrease in this latter kind of emissions over the '60s and '70s, and as the air cleared, the CO2 signal again emerged and took over. Below, courtesy of Global Warming Art, is an image of the current understanding of the factors and their influence for the climate of the past century.

(graphic)

As the graph shows, in addition to aerosol pollution (the sulphate line), volcanic influences were increasingly negative during the period of global cooling, and solar forcing slightly declined. All forcings taken together and run through the model are a very good match for the observations. (Please see the source page for details of what model and what study this image is derived from.)

Rather than confounding the climate consensus, mid-century cooling is actually a good test for the climate models, one they are passing quite convincingly.

Addendum: The opposing effect of cooling from airborne pollutants is often referred to as "Global Dimming", and Real Climate has a couple of articles on it:

Global Dimming?

Global Dimming II

One emerging concern is that as the pollution causing this effect is gradually cleaned up, we may see even greater greenhouse gas warming."

Worse, the ice core evidence shows  
> that increases in carbon dioxide level historically follows warming  
> not precedes it. Carbon may not be the problem.

That's unlikely.

From: <http://gristmill.grist.org/story/2006/12/22/231145/76>

"Objection: In glacial-interglacial cycles, CO2 concentration lags behind temperature by centuries. Clearly, CO2 does not cause temperatures to rise; temperatures cause CO2 to rise.

Answer: When viewed coarsely, historical CO2 levels and temperature show a tight correlation. However, a closer examination of the CH4, CO2, and temperature fluctuations recorded in the Antarctic ice core records

reveals that, yes, temperature moved first.

Nevertheless, it is misleading to say that temperature rose and then, hundreds of years later, CO2 rose. These warming periods lasted for 5,000 to 10,000 years (the cooling periods lasted more like 100,000 years!), so for the majority of that time (90% and more), temperature and CO2 rose together. This remarkably detailed archive of climatological evidence clearly allows for CO2 acting as a cause for rising temperatures, while also revealing it can be an effect of them.

(graphic)

The current understanding of those cycles is that changes in orbital parameters (the Milankovich and other cycles) caused greater amounts of summer sunlight to fall in the northern hemisphere. This is a small forcing, but it caused ice to retreat in the north, which changed the albedo. This change -- reducing the amount of white, reflective ice surface -- led to further warmth, in a feedback effect. Some number of centuries after that process started, CO2 concentrations in the atmosphere began to rise, which amplified the warming trend even further as an additional feedback mechanism.

(You can go here for a discussion of exactly this question by climate scientists, with greater technical detail and full references to the scientific literature.)

So it is correct that CO2 did not trigger the warmings, but it definitely contributed to them -- and according to climate theory and model experiments, greenhouse gas forcing was the dominant factor in the magnitude of the ultimate change.

This raises a warning for the future: we may well see additional natural CO2 come out of the woodwork as whatever process took place repeatedly over the last 650K years begins to play out again. The likely candidates are out-gassing from warming ocean waters, carbon from warming soils, and methane from melting permafrost."

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating deliberately one sided polemic BS

Posted by [Jamie K](#) on Sun, 01 Apr 2007 03:03:44 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Global warming is not being denied by anyone who reads the data. The

earth is clearly warming, according to actual measurements.

The science of how CO2 helps trap heat in a "greenhouse effect" is pretty well understood.

If you want to read an overview of the current scientific view on global warming, carefully stated without a lot of hyperbole, try this report and its recent update, both linked here:

<http://www.thescientificworld.com/SCIENTIFICWORLDJOURNAL/main/Home.asp>

Overview:

"In 2003 TheScientificWorldJOURNAL published a seminal review on Global Warming: The Balance of Evidence and Its Policy Implications by Charles

delighted to announce the long awaited update: Global Warming: UPDATE 2007.

some of the bigger controversies and assertions about global warming, how these assertions arose, and how the controversies have been resolved in recent years.

In its recently released summary the new IPCC report does not provide the how and the why behind the increased certainty of global warming and the human involvement in it. While Dr. Keller's update is not intended to be a substitute for the scholarly and important IPCC report, it does make the entire picture about the global warming controversy more

The reality of global warming still might have hotly contested issues, but now the informed outnumber the ill-informed, which is another step to developing educated policy changes.

About the author:

After a distinguished career in the national security establishment, Dr.

California's Institute of Geophysics and Planetary Physics Branch at the Los Alamos National Laboratory prior to his retirement in 2001. During these years he became involved in a variety of issues related to climate change and its causes and took on the task of developing counter-arguments to some of the more vexing issues raised by climate skeptics. His two contributions in TheScientificWorldJOURNAL summarize his work in this area."



I was turned onto this report by an amazing guy I work with. The report was written by his father.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

Don Nafe wrote:

> I understand what you're saying DJ and I'm in no way saying that humans  
> aren't contributing to greenhouse gases..my only problem is that greenhouse  
> gases make up such a small (almost insignificant) portion of our atmosphere  
> that I personally find it hard to believe that Global Warming; if there is  
> such a thing happening, is being driven by human activity  
>  
> DOn  
>  
>  
> "DJ" <[www.aarrrrggghhh!!!.com](http://www.aarrrrggghhh!!!.com)> wrote in message news:460ef23c\$1@linux...  
>> "Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote in message news:460eed97\$1@linux...  
>>> I'm not about to get into an argument about Global warming...but I do  
>>> remember my Grade 10 science and the chemical make up of the atmosphere  
>>> and from that perspective alone Global Warming being caused by CO2  
>>> doesn't make any sense and it makes even less sense when you use the  
>>> numbers the IPCC uses to prove that CO2 emmissions are the cause...bad  
>>> science...plain and simple.  
>>>  
>>> On the otherhand, I reduce, reuse and recycle and have spent thousands of  
>>> dollars making my home energy efficient and drive as clean and efficient  
>>> a car as I can afford...I'm doing my part and will continue to due  
>>> so...but not because of scare tactics and bullshit science but because  
>>> it's the smart thing to do.  
>>  
>> I think that's to be applauded and I don't disagree that some of the  
>> models that arebeing put out there (by both sides) are flawed, but to me,  
>> it's one of those obvious things and I just don't get how something so  
>> relavent as global pupulation can be overlooked. It's as idiotic as when I  
>> hear people saying that we \*started\* a war in Iraq when the war that was  
>> started by Sadaam never ended. The fundamental facts are being overlooked  
>> for the sake of political posturing while a very real disaster looms on  
>> the horizon because there is no commonality of purpose..  
>>  
>  
>

Subject: Re: OT - Global warming alternative opinion movie - fascinating deliberately one sided polemic BS

Posted by [Jamie K](#) on Sun, 01 Apr 2007 03:15:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Sorry if I left the impression that everyone in fossil fuels is ignorant about global warming, far from it. Thanks for clarifying, DeeJ!

I agree that we should be using the opportunities we have with our finite fossil fuel resources to lay the groundwork for the smoothest possible transition to a renewable energy strategy.

This will probably require people getting out of their partisan fighting stances and well worn rhetorical grooves and actually working together.

Cheers,

-Jamie

[www.JamieKrutz.com](http://www.JamieKrutz.com)

PS. You might want to double check your population figures:

<http://www.census.gov/ipc/www/world.html>

DJ wrote:

> Global warming is very real IMO.

>

> Even the people in the fossil fuels business (me, for instance) know that  
> they produce sulphur based pollutants and CO2. The only way, IMHO, to  
> explain away global warming is to explaining away the theory that CO2  
> doesn't cause it. I ain't buying that one. Those who try to compare what is  
> happening now to what has happened in the past with climate change are  
> missing one serious fundamental.....never in the past have there been so  
> people on this planet burning so much carbon and never before have we had  
> the science to live as long as we do now, and for our spawn to survive the  
> in such staggering numbers. Also, if you stop and think about it, up until  
> 50 years ago, we had major disease epidemics that culled the global  
> populations drastically and systematically and some pretty devastating wars  
> on a fairly regular basis that also culled the population, especially in  
> continental Europe and Asia, thus delaying the exponential population  
> explosion that we have seen over the last 30 years or so. In 1970, the world  
> population was 39 billion and change. right now it's estimated to exceed 67  
> billion. All of these folks are competing for and using vcarbon based energy  
> resources (and farting on a regular basis ;o).

>

> The solutions we're proposing right now are too little too late (again IMO)  
> There are ways to reduce energy consumption but this will add to the costs  
> that none of us want to pay. At some point, diminishing returns will be

> reached and alternative energy sources will start look more competitive. The  
> bigger problem is that the point of diminishing returns is quickly being  
> reached as far as global supply is concerned (yeah....that peak oil  
> voodoo...too bad it's as real as the day is long). This is already the  
> driving factor in our effort to survive in the brave new global economy.  
> It's gonna be expensive no matter what though. We are already starting to  
> see the price of products based on corn as food to rise as the shift to  
> ethanol starts to ramp up. the only way to sustain anything like the economy  
> we have right now and become energy independent would be to build new  
> refineries here,, build coal fired power plants, nuclear energy and drill  
> every drop and bubble of oil and natural gas that we have here within our  
> continental soveriegnty while rolling huge amount of the revenue from the  
> sale of that to alternative energy R&D. Big problem there.....the energy  
> interests won't do it and the environmentalists won't do it so we're gonna  
> be hosed in 20 years, if not \*much sooner\*.  
>  
> the real problem is that there are just too many of \*us\*. I think we're  
> getting ready so see some stuff right out of the worst imaginable horror  
> movie that the most twisted mind could dream up.  
>  
> Mother nature has always had a way of levelling our karma and our doomsday  
> religiosity will do the rest. I've always believed that things happen if  
> enough energy is directed toward the particular end one is trying to  
> achieve. Well.....lots of folks believe that Armageddon is inevitable  
> and by god, it's our duty to make sure that it happens the \*right\* way so  
> that you go to hell and I don't.  
>  
> shit!!!!....where'd I put my meds?  
>  
> ;oP  
>  
>  
>  
>  
>  
>  
>  
>  
>  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...  
>> The fossil fuels lobby would love to make this about Al Gore instead of  
>> about global warming. Because then anyone who doesn't happen like Al Gore  
>> might be more inclined to buy their spin.  
>>  
>> If you don't happen to like Al Gore, check out the actual science. Try and  
>> avoid the spin from the fossil fuels lobby if you can. Stick with facts  
>> and assess the risks yourself.  
>>  
>> Here are a couple of useful web sites:  
>>

>> <http://www.realclimate.org/>  
>>  
>> [http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>  
>>  
>> Don Nafe wrote:  
>>> The man who invented the internet wouldn't know a scientific fact if it  
>>> was weighed down with 2000 lb weight and dropped on his chicken little  
>>> head!  
>>>  
>>> DOn  
>>>  
>>> "Bill Lorentzen" <[bill@lorentzen.ws](mailto:bill@lorentzen.ws)> wrote in message  
>>> [news:460ec4f9@linux...](mailto:news:460ec4f9@linux...)  
>>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>>  
>>>> It's a British documentary showing another viewpoint about global  
>>>> warming and CO2. It's a viewpoint that is different from that of the man  
>>>> who invented the internet...  
>>>>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS

Posted by [Sarah](#) on Sun, 01 Apr 2007 06:27:01 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

(applause)

Sarah :)

"DJ" <[www.aarrrrggghhh!!!.com](http://www.aarrrrggghhh!!!.com)> wrote in message [news:460ee646\\$1@linux...](mailto:news:460ee646$1@linux...)

> Global warming is very real IMO.

>

> Even the people in the fossil fuels business (me, for instance) know that  
> they produce sulphur based pollutants and CO2. The only way, IMHO, to  
> explain away global warming is to explaining away the theory that CO2  
> doesn't cause it. I ain't buying that one. Those who try to compare what  
> is happening now to what has happened in the past with climate change are  
> missing one serious fundamental.....never in the past have there been  
> so people on this planet burning so much carbon and never before have we  
> had the science to live as long as we do now, and for our spawn to survive

> the in such staggering numbers. Also, if you stop and think about it, up  
> until 50 years ago, we had major disease epidemics that culled the global  
> populations drastically and systematically and some pretty devastating  
> wars on a fairly regular basis that also culled the population, especially  
> in continental Europe and Asia, thus delaying the exponential population  
> explosion that we have seen over the last 30 years or so. In 1970, the  
> world population was 39 billion and change. right now it's estimated to  
> exceed 67 billion. All of these folks are competing for and using vcarbon  
> based energy resources (and farting on a regular basis ;o).  
>  
> The solutions we're proposing right now are too little too late (again  
> IMO) There are ways to reduce energy consumption but this will add to the  
> costs that none of us want to pay. At some point, diminishing returns will  
> be reached and alternative energy sources will start look more  
> competitive. The bigger problem is that the point of diminishing returns  
> is quickly being reached as far as global supply is concerned  
> (yeah....that peak oil voodoo...too bad it's as real as the day is long).  
> This is already the driving factor in our effort to survive in the brave  
> new global economy. It's gonna be expensive no matter what though. We are  
> already starting to see the price of products based on corn as food to  
> rise as the shift to ethanol starts to ramp up. the only way to sustain  
> anything like the economy we have right now and become energy independent  
> would be to build new refineries here,, build coal fired power plants,  
> nuclear energy and drill every drop and bubble of oil and natural gas that  
> we have here within our continental soveriegnty while rolling huge amount  
> of the revenue from the sale of that to alternative energy R&D. Big  
> problem there.....the energy interests won't do it and the  
> environmentalists won't do it so we're gonna be hosed in 20 years, if not  
> \*much sooner\*.  
>  
> the real problem is that there are just too many of \*us\*. I think we're  
> getting ready so see some stuff right out of the worst imaginable horror  
> movie that the most twisted mind could dream up.  
>  
> Mother nature has always had a way of levelling our karma and our doomsday  
> religiosity will do the rest. I've always believed that things happen if  
> enough energy is directed toward the particular end one is trying to  
> achieve. Well.....lots of folks believe that Armageddon is inevitable  
> and by god, it's our duty to make sure that it happens the \*right\* way so  
> that you go to hell and I don't.  
>  
> shit!!!!....where'd I put my meds?  
>  
> ;oP  
>  
>  
>  
>

>  
>  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...  
>>  
>> The fossil fuels lobby would love to make this about Al Gore instead of  
>> about global warming. Because then anyone who doesn't happen like Al Gore  
>> might be more inclined to buy their spin.  
>>  
>> If you don't happen to like Al Gore, check out the actual science. Try  
>> and avoid the spin from the fossil fuels lobby if you can. Stick with  
>> facts and assess the risks yourself.  
>>  
>> Here are a couple of useful web sites:  
>>  
>> <http://www.realclimate.org/>  
>>  
>> [http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>  
>>  
>> Don Nafe wrote:  
>>> The man who invented the internet wouldn't know a scientific fact if it  
>>> was weighed down with 2000 lb weight and dropped on his chicken little  
>>> head!  
>>>  
>>> DOn  
>>>  
>>> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
>>> news:460ec4f9@linux...  
>>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>>  
>>>> It's a British documentary showing another viewpoint about global  
>>>> warming and CO2. It's a viewpoint that is different from that of the  
>>>> man who invented the internet...  
>>>>  
>>>  
>>>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [rick](#) on Sun, 01 Apr 2007 10:41:47 GMT  
[View Forum Message](#) <> [Reply to Message](#)

finality someone mentions global dimming as one of the mitigating

factors working against global warming. in areas where (solid particulate pollution has been lessened is where the temperature increase is greatest. areas where these controls are not being implemented have stayed relatively cooler due to the 20-30% reduction in sun hours.

On Sat, 31 Mar 2007 20:55:15 -0600, Jamie K <Meta@Dimensional.com> wrote:

>  
>DC wrote:  
>> Remember, in the 1970's the same people were squealing  
>> about global cooling.  
>  
>That's pretty funny, Don. Who were those "same people" and what speech  
>impediment caused the "squealing" that you think we all remember?  
>  
>What I remember about the 70's is some pretty cool music.  
>  
>Anyway, here's some info on the stock mid century global cooling objection.  
>  
>From: <http://gristmill.grist.org/story/2006/11/4/14560/6189>  
>  
>"Objection: There was global cooling in the '40s, '50s, and '60s, even  
>while human greenhouse-gas emissions were rising. Clearly, temperature  
>is not being driven by CO2.  
>  
>Answer: None of the advocates of the theory of anthropogenic global  
>warming claim that CO2 is the only factor controlling temperature in the  
>ocean-atmosphere climate system. It is a large and complex system,  
>responsive on many different timescales, subject to numerous forcings.  
>AGW only makes the claim that CO2 is the primary driver of the warming  
>trend seen over the last 100 years. This rise has not been smooth and  
>steady -- nor would it be expected to be.  
>  
>(graphic, go look at the link to see it)  
>  
>If you look at the temperature record for the 1990s, you'll notice a  
>sharp drop in '92, '93, and '94. This is the effect of massive amounts  
>of SO2 ejected into the stratosphere by Mount Pinatubo's eruption. That  
>doesn't mean CO2 took a holiday and stopped influencing global  
>temperatures; it only means that the CO2 forcing was temporarily  
>overwhelmed by another, opposite forcing.  
>  
>The situation is similar to the cooling seen in the '40s and '50s.  
>During this period, the CO2 warming (a smaller forcing at the time) was

>temporarily overwhelmed by by other factors, perhaps foremost among them  
>an increase in human particulates and aerosol pollution. Pollution  
>regulations and improved technology saw a decrease in this latter kind  
>of emissions over the '60s and '70s, and as the air cleared, the CO2  
>signal again emerged and took over. Below, courtesy of Global Warming  
>Art, is an image of the current understanding of the factors and their  
>influence for the climate of the past century.

>  
>(graphic)

>  
>As the graph shows, in addition to aerosol pollution (the sulphate  
>line), volcanic influences were increasingly negative during the period  
>of global cooling, and solar forcing slightly declined. All forcings  
>taken together and run through the model are a very good match for the  
>observations. (Please see the source page for details of what model and  
>what study this image is derived from.)

>  
>Rather than confounding the climate consensus, mid-century cooling is  
>actually a good test for the climate models, one they are passing quite  
>convincingly.

>  
>Addendum: The opposing effect of cooling from airborne pollutants is  
>often referred to as "Global Dimming", and Real Climate has a couple of  
>articles on it:

>  
>Global Dimming?  
>Global Dimming II

>One emerging concern is that as the pollution causing this effect is  
>gradually cleaned up, we may see even greater greenhouse gas warming."

>  
>  
>

>Worse, the ice core evidence shows  
>> that increases in carbon dioxide level historically follows warming  
>> not precedes it. Carbon may not be the problem.

>  
>That's unlikely.

>  
>From: <http://gristmill.grist.org/story/2006/12/22/231145/76>

>  
>"Objection: In glacial-interglacial cycles, CO2 concentration lags  
>behind temperature by centuries. Clearly, CO2 does not cause  
>temperatures to rise; temperatures cause CO2 to rise.

>  
>Answer: When viewed coarsely, historical CO2 levels and temperature show  
>a tight correlation. However, a closer examination of the CH4, CO2, and  
>temperature fluctuations recorded in the Antarctic ice core records  
>reveals that, yes, temperature moved first.



>  
>Nevertheless, it is misleading to say that temperature rose and then,  
>hundreds of years later, CO2 rose. These warming periods lasted for  
>5,000 to 10,000 years (the cooling periods lasted more like 100,000  
>years!), so for the majority of that time (90% and more), temperature  
>and CO2 rose together. This remarkably detailed archive of  
>climatological evidence clearly allows for CO2 acting as a cause for  
>rising temperatures, while also revealing it can be an effect of them.  
>  
>(graphic)  
>  
>The current understanding of those cycles is that changes in orbital  
>parameters (the Milankovich and other cycles) caused greater amounts of  
>summer sunlight to fall in the northern hemisphere. This is a small  
>forcing, but it caused ice to retreat in the north, which changed the  
>albedo. This change -- reducing the amount of white, reflective ice  
>surface -- led to further warmth, in a feedback effect. Some number of  
>centuries after that process started, CO2 concentrations in the  
>atmosphere began to rise, which amplified the warming trend even further  
>as an additional feedback mechanism.  
>  
>(You can go here for a discussion of exactly this question by climate  
>scientists, with greater technical detail and full references to the  
>scientific literature.)  
>  
>So it is correct that CO2 did not trigger the warmings, but it  
>definitely contributed to them -- and according to climate theory and  
>model experiments, greenhouse gas forcing was the dominant factor in the  
>magnitude of the ultimate change.  
>  
>This raises a warning for the future: we may well see additional natural  
>CO2 come out of the woodwork as whatever process took place repeatedly  
>over the last 650K years begins to play out again. The likely candidates  
>are out-gassing from warming ocean waters, carbon from warming soils,  
>and methane from melting permafrost."  
>  
>Cheers,  
> -Jamie  
> www.JamieKruz.com

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one-sided polemic  
Posted by [Don Nafe](#) on Sun, 01 Apr 2007 11:34:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Just so I've got this straight...according to the scientific data I am to  
believe that the smallest portion of our atmosphere (less than 3%) is in

charge of our planet's temperature and that the sun, the oceans and cosmic triggers have little or no effect on our climate...and that the warming and cooling trends of the previous 600 million years on the earth don't matter because humans weren't a factor in those changes.

Ok got it

Don

"Jamie K" <Meta@Dimensional.com> wrote in message news:460edf8a\$1@linux...

>

> It's a viewpoint that ignores the main body of peer-reviewed scientific evidence for the sake of sensationalism. It was done that way deliberately by the producers, with no attempt at an objective look at the actual scientific evidence.

>

> Google it to check out the story behind it. Fair and balanced it ain't.

>

> I do like the breathless announcer, fast cuts and dramatic music. It's always fun to see a one-sided polemic that ironically accuses others of being one-sided. I doubt anyone here is gullible enough to take it as an objective authority.

>

> Cheers,

> -Jamie

> www.JamieKrutz.com

>

>

>

> Bill Lorentzen wrote:

>> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related&search=>

>>

>> It's a British documentary showing another viewpoint about global warming

>> and CO2. It's a viewpoint that is different from that of the man who

>> invented the internet...

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating deliberately one sided polemic BS

Posted by [TCB](#) on Sun, 01 Apr 2007 15:03:16 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

There's lots of stuff I can't talk about because of my job, but this is a very good book that says some of the same things but draws slightly different conclusions.

<http://www.amazon.com/Thousand-Barrels-Second-Challenges-Dependent/dp/0071468749>

I met the author and had a long discussion with him, and he knows his shit.

TCB

P.S. The only good thing that just might possibly come out of our current middle eastern meddling is that if we do start a war with Iran, and they do choke off the oil tankers, and gas does go to \$15 per gallon it will be a hell of a spank on the US economy but we might finally get serious about conservation. And I don't see Iran going gentle into the night, they call that piece of water the 'Persian Gulf' for a reason. Anyway, that's a good book.

"DJ" <www.aarrrrggghhh!!!.com> wrote:

>Global warming is very real IMO.

>

>Even the people in the fossil fuels business (me, for instance) know that

>they produce sulphur based pollutants and CO2. The only way, IMHO, to

>explain away global warming is to explaining away the theory that CO2

>doesn't cause it. I ain't buying that one. Those who try to compare what

is

>happening now to what has happened in the past with climate change are

>missing one serious fundamental.....never in the past have there been

so

>people on this planet burning so much carbon and never before have we had

>the science to live as long as we do now, and for our spawn to survive the

>in such staggering numbers. Also, if you stop and think about it, up until

>50 years ago, we had major disease epidemics that culled the global

>populations drastically and systematically and some pretty devastating wars

>on a fairly regular basis that also culled the population, especially in

>continental Europe and Asia, thus delaying the exponential population

>explosion that we have seen over the last 30 years or so. In 1970, the world

>population was 39 billion and change. right now it's estimated to exceed

67

>billion. All of these folks are competing for and using vcarbon based energy

>resources (and farting on a regular basis ;o).

>

>The solutions we're proposing right now are too little too late (again IMO)

>There are ways to reduce energy consumption but this will add to the costs

>that none of us want to pay. At some point, diminishing returns will be

>reached and alternative energy sources will start look more competitive.

The

>bigger problem is that the point of diminishing returns is quickly being

>reached as far as global supply is concerned (yeah....that peak oil

>voodoo...too bad it's as real as the day is long). This is already the

>driving factor in our effort to survive in the brave new global economy.

>It's gonna be expensive no matter what though. We are already starting to

>see the price of products based on corn as food to rise as the shift to

>ethanol starts to ramp up. the only way to sustain anything like the economy

>we have right now and become energy independent would be to build new

>refineries here,, build coal fired power plants, nuclear energy and drill

>every drop and bubble of oil and natural gas that we have here within our

>continental soveriegnty while rolling huge amount of the revenue from the

>sale of that to alternative energy R&D. Big problem there.....the energy

>interests won't do it and the environmentalists won't do it so we're gonna

>be hosed in 20 years, if not \*much sooner\*.

>

>the real problem is that there are just too many of \*us\*. I think we're

>getting ready so see some stuff right out of the worst imaginable horror

>movie that the most twisted mind could dream up.

>

>Mother nature has always had a way of levelling our karma and our doomsday

>religiosity will do the rest. I've always believed that things happen if

>enough energy is directed toward the particular end one is trying to

>achieve. Well.....lots of folks believe that Armageddon is inevitable

>and by god, it's our duty to make sure that it happens the \*right\* way so

>that you go to hell and I don't.

>

>shit!!!!.....where'd I put my meds?

>

>;oP

>

>

>

>

>

>

>

>"Jamie K" <Meta@Dimensional.com> wrote in message news:460edd9e\$1@linux...

>>

>> The fossil fuels lobby would love to make this about Al Gore instead of

>> about global warming. Because then anyone who doesn't happen like Al Gore

>> might be more inclined to buy their spin.

>>

>> If you don't happen to like Al Gore, check out the actual science. Try and

>> avoid the spin from the fossil fuels lobby if you can. Stick with facts

>> and assess the risks yourself.

>>

>> Here are a couple of useful web sites:

>>

>> <http://www.realclimate.org/>

>>

>> [http://www.ucsusa.org/global\\_warming/science/](http://www.ucsusa.org/global_warming/science/)

>>

>> Cheers,

>> -Jamie

>> [www.JamieKrutz.com](http://www.JamieKrutz.com)

>>

>>

>> Don Nafe wrote:

>>> The man who invented the internet wouldn't know a scientific fact if it

>>> was weighed down with 2000 lb weight and dropped on his chicken little

>>> head!

>>>

>>> DOn

>>>

>>> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message

>>> news:460ec4f9@linux...

>>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>

>>>>

>>>> It's a British documentary showing another viewpoint about global  
>>>> warming and CO2. It's a viewpoint that is different from that of the  
man  
>>>> who invented the internet...  
>>>>  
>>>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Bill Lorentzen](#) on Sun, 01 Apr 2007 16:01:44 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

What fun!

Bill

"Sarah" <sarahjane@sarahtonin.com> wrote in message news:460f1a28\$1@linux...  
> Oh, and by the way, here's some detail.  
> [http://news.independent.co.uk/environment/climate\\_change/art icle2326210.ece](http://news.independent.co.uk/environment/climate_change/article2326210.ece)  
>  
> S  
>  
>  
> "Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
> news:460ec4f9@linux...  
>> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related& amp;search=>  
>>  
>> It's a British documentary showing another viewpoint about global warming  
>> and CO2. It's a viewpoint that is different from that of the man who  
>> invented the internet...  
>>  
>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [gene lennon](#) on Sun, 01 Apr 2007 16:46:44 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"DC" <dc@spammersinhell.com> wrote:  
>  
>Gene,  
>  
>No matter what we say to each other here, the whole thing  
>is out of our hands. What troubles me is that we who grew  
>up in the 1960's learned to rebel against Nixon, but we drew

>the line at Gore and Hillary didn't we? How did we get so  
>many sacred cows?  
>  
>What if these scientists are right?  
>  
>Remember, in the 1970's the same people were squealing  
>about global cooling. Worse, the ice core evidence shows  
>that increases in carbon dioxide level historically follows warming  
>not precedes it. Carbon may not be the problem.  
>  
>  
>DC  
>

I know the Naysayers will just say nay, but you should read this:

<http://www.cnn.com/2007/TECH/science/04/01/climate.report.ap/index.html>

Personally I think we should just argue about the science for the next hundred years or so. Then the people standing in the way of doing something about it can simply claim that it would have happened anyway, and the people that

I will be gone when the shit really starts to hit the fan in about 50 years.

"The worst stuff is not going to happen because we can't be that stupid," said Harvard University oceanographer James McCarthy.

This is the optimistic opinion of a person who does not frequent the Paris users group.

Gene :-)

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Bill Lorentzen](#) on Sun, 01 Apr 2007 16:51:39 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Unfortunately I don't know enough science to analyze the whole scene and draw my own "scientific" conclusions. That said, I do find one specific datum from the movie compelling: that historically the CO2 has risen AFTER the warming. If this is indeed true, then one would have to be a fool to believe that increased CO2 emissions will greatly cause global warming. Surely we are all smart enough to acknowledge that.

A key question is: historically, which came first, the warming or the CO2 increase? Who can unequivocally determine that?

Bill

"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...  
> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related&search=>  
>  
> It's a British documentary showing another viewpoint about global warming  
> and CO2. It's a viewpoint that is different from that of the man who  
> invented the internet...  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Phil Aiken](#) on Sun, 01 Apr 2007 17:11:07 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

For the record:  
<http://www.snopes.com/quotes/internet.asp>

"Don Nafe" <dnafe@magma.ca> wrote:  
>The man who invented the internet wouldn't know a scientific fact if it  
was  
>weighed down with 2000 lb weight and dropped on his chicken little head!  
>  
>DOn  
>  
>"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...  
>> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related&search=>  
>>  
>> It's a British documentary showing another viewpoint about global warming  
  
>> and CO2. It's a viewpoint that is different from that of the man who  
>> invented the internet...  
>>  
>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS  
Posted by [Deej \[4\]](#) on Sun, 01 Apr 2007 17:23:32 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"Don Nafe" <dnafe@magma.ca> wrote in message news:460ef748\$1@linux...  
>I understand what you're saying DJ and I'm in no way saying that humans



>aren't contributing to greenhouse gases..my only problem is that greenhouse  
>gases make up such a small (almost insignificant) portion of our atmosphere  
>that I personally find it hard to believe that Global Warming; if there is  
>such a thing happening, is being driven by human activity  
>  
> DOn

One thing to think about here Don.....deforestation.....the planet used to be covered with plants that utilized CO2. CO2 may constitute only a small portion of our atmosphere, but it's a critical part of the atmosphere. When you talk about \*almost insignificant\* things, a 3 degree F rise in global temperature may seem insignificant in and of itself, and the inundation of 60 miles of continental coastline that this could create may seem insignificant when you consider that 60 miles is insignificant when you're talking about a continent that is over 3000 miles across, but also consider the fact that a huge portion of the earth's population lives within that 60 miles and since water tends to adhere to the laws of gravity, depending on the topo in these various areas, this 60 miles is gonna just be a drainage area for waterflow seeking the lowest point which means you'd best start buying beachfront real estate on the eastern edge of the Mojave and the Appalattians.

A little goes a long way when you start jacking around with the life support system of a living organism and the earth is a living organism. We're just sorta' starting to behave like a malignancy within that organism. A \*almost insignificant\* tumor can kill you. Suppose someone strapped a respirator on you and started mixing in elevated levels of CO2 at higher temperatures than 98.6 degrees, thus altering the basic composition of the gases you needed to survive and warming your body to the point that you basically were running a fever 24/7, and you had to breathe this to the exclusion of anything else. Depending on how drastically the CO2 was increased, you might survive and eventually adapt, but you would initially be weakened by the imbalance of the toxic gas and the fever and the this weakening would likely hamper your capability to evolve an adaptation to the new environment. Now add that to the fact that as you are weakening, the CO2 levels and temperature in your environment are being constantly elevated.

Maybe a good thin (not for us, but for everything but us) is that our population density is getting to the point that we are fast becoming a petrii dish for some new bugs out there that could be considered by some to be the earth's immune system. when the :\*bird flu" white cells start travelling through the earth's aerial circulatory system that Boeing, Lockheed, Airbus, et al has so conveniently provided it, all but the \*resistant strains\* may get whacked.

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Jamie K](#) on Sun, 01 Apr 2007 17:27:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Bill Lorentzen wrote:

> Unfortunately I don't know enough science to analyze the whole scene and  
> draw my own "scientific" conclusions. That said, I do find one specific  
> datum from the movie compelling: that historically the CO2 has risen AFTER  
> the warming. If this is indeed true, then one would have to be a fool to  
> believe that increased CO2 emissions will greatly cause global warming.  
> Surely we are all smart enough to acknowledge that.  
>  
> A key question is: historically, which came first, the warming or the CO2  
> increase? Who can unequivocally determine that?

Bill, you can read a good explanation here:

<http://gristmill.grist.org/story/2006/12/22/231145/76>

In short, they can be interrelated, and the biggest driver in the end is the CO2. IOW, it fits into the picture we're getting, that humans are now contributing to the current climate change.

If you can't draw your own scientific conclusions, it may make some sense to listen to the conclusions that actual climate scientists are drawing.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating deliberately one-sided polemic

Posted by [gene lennon](#) on Sun, 01 Apr 2007 17:27:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

---=\_linux460feb78  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

"Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote:

>Just so I've got this straight...according to the scientific data I am to

>believe that the smallest portion of our atmosphere (less than 3%) is in

>charge of our planet's temperature and that the sun, the oceans and cosmic

>triggers have little or no effect on our climate...and that the warming  
and

>cooling trends of the previous 600 million years on the earth don't matter

>because humans weren't a factor in those changes.

>

>Ok got it

>

>Don

>

>

This is LA which is not as bad as Denver, which is not as bad as Mexico City,

---=\_linux460feb78

Content-Type: image/gif; name="800px-Los\_Angeles\_Pollution.gif"

Content-Transfer-Encoding: base64

Content-Disposition: attachment; filename="800px-Los\_Angeles\_Pollution.gif"

```
R0IGODIhWAKkAPcAAKy8us7UxSY0O97jz6y6tUNEQ0VDO4tvXdTXx1NSTLXE
vUxMS0xLRMbNvFRqcrvGvbzJxHeVnFNTU2hiVzpDRJytrZWrrERLTDpESzY5
OoWepDNDS4aanFtTTMbMxaSzrsrTvnZIV1NMRNvfzDpIUTJBRFh5gkNMUkxR
SyxBSKasqFNNSzi7Q4yjpcuymrO+ukNFS0xSU9XXy2NbU1tUUo2lqsvPxWhm
YqGFctffy9fbx0tNUkRKRL08tVtaVEtFQIJJOtfby1RSRJuusmuMIVtTRKq2
tGJUTFVdYmaFjJ6ys5SkpcvPvSQ4Q1tbWztAOyg4QTk8Q/PT3uaoTtKTbGI
ISw8RVNUWnOOI6a2tmteU0I8NmJaTNfgz5abmExTWnZpYURRU9jg03ali2JV
U46qq2JdWsPHu1NNUqa6tltTFpNQyg8RWVQOIRZW73Et5KgnZOmzig4RWJT
RleJiLi1qWtbTHI4d1xhWayYh1RZU4aiPlpNTCg0QaK2tnVZRp2yrqKysmd2
ektFS6e2sbu+tdfaz1JFQ3lhTSQ0QSw8STE8SUVSWiw8Pyw4RWdgTFyBiqS2
uoWhqmJMRJyko1IROpyqpf/ryHJeUi04P7u+u3lyaqa6uqK2svLKnZmVjaKu
sG+Rm9fLt1pVWkl8QGNARNLbymNqc2pUQ9vFq5WqmpUS2BfYISPIDxJRa7D
u2teW77LvjtOVf7itpSMhIVWskNFUkxZXENNWBkUpYmUkJymqyc8QGpUUqKy
tmxaRHV/fqixsau2ulxZRCQvN7C0sDk8STRKTGpvsSxFT8THxFIDLRwyOEtN
WbbDtg+/v1JFSjo3LkRYXkhBLcTDtnZvdDtXYqaxtsq9rHuQkGFVWiw0MkxP
PU1ZVDA0PurXwFVZRFtFQc7CstPfyELRuGFOT0VVVtMvNcjHvH2fpzRFRc/P
x4+TlyY9S6KgoCktLj5PSor+fU1FUd69mbCur46qpm1XWVhFTcPLtjY+Txw2
P7K2ukVhaTQsJNPZz4amqyH5BAAAAAALAAAAABYAqQAAAJ/ABsiHEiwoMGD
CBMiBCGQYQOHEBU+bMAEBJOKDSIqPAiil0WLFW2EDGkDhI2SHVN2ZilyQMCA
MGPGRACTpqaApm7m3MmTZxBTQX4GyWEqh9Gjhgx1SdqlqdOnUKM6FUO16gCq
V8Vc3aqVahevYr5e/Sq17NMcXYgeXUtUR9Fx43LA1THOLU+7PHHq3Ku3L8yb
OAMgGEy4ME4EphADXqy4p9u6cyPDNRpXLtVlbNM2Rau5s1PMoC9XHk0ZLixT
40y51bG6tWrWsFKXZv36dezEtWPrps16rWTTR0ewrWxUc44BI5InR152AHLn
I5wO6DL9afXPmzcfnyx5t/fY+PAZ/4zVgLxEgbFAxEq/Xr358e4JepzPkP5E
```

9QXrf2QycSJ//gR5kJ4H/oFk0kgWIXSSSSq9VJFLMIEQk4QyDdZXTnr1pKFQ  
QqmV2VJNKWXWiFNZNYJVVImhXHJldUUWiVKh5SFbqkFWFFGp0abhTjb95eNf  
OoGgk1+FFWkTAuMlqVhfCAipo2qo0QXZIKRZFtpInXGm5WdXdmlllaadImNu  
rn03223e2fYdmjr4RiV3OQjn21rGlaecnVA5R91zAxzXVHXTBXqddtEV6mUO  
a3533kHihZeRfSlx9BB95EXUn6X9TVrpfhg59F+AGRV4kYGjLrggfSpB+JKE  
FNZUoU177f+4YYemZBdiUrjCSGJVJ1bVVVcrRgdVWMS+qKt2ac24VpRuGRXE  
mLLu9ONiPgopoSkUYpiYYDoQJlhgeoEwzrQQgnllFJKCeahdBbnroxZsuum  
XHFNZm+YZOa722DdDrYTbGrallOiqxE3J71syWnlUZoVupydRjl3HXTO+Rno  
nnseR2ewyl3Z28cEnYDeoguxZ3J8BqmHcqX1tTzpyym9x/KkFbmsEYADeUBg  
faP2XBJLCZqk4KWrQmh0qzPR5GpgjUWbE63vOiWiiMdK5auKKAK7YtVcG3cj  
jXS5NVQQvOHV05LUgisThn9JqDS/3ibWZAA6+JV2kuY+lu5vIPX/LW+Wtm4p  
L2br0huZvmV6dybAu6lJcGvDIQynwn4zHOdxl/AprMUSZ76cdX/umXmf0Hle  
esfdtQlyoo6SzNHJ7a0nKcoquwypfg41J6ok3q6kUD82UBgRT0jKJLQQqOE  
oNEuscqphUsrvZiGgvXEoS45griUIQZ0n1YXT+I4IzjBctZ+CTK+DXYQLFG  
tg7v7xiYtnzRfyFgNdGEQL/6N5mTuGzDH2pAsJqBRUky6vKbwbwEuAbKaHCR  
+1JpDlc2xO2LMlxzHJnqkqjXRO5ewYmgu9Jip9Ex52Gdk5ieJtaF0XnuhS6k  
2lpShyJvHswhOJOI7eTzukhl6nYwy9Sj/2jmkYz854gN8MB/fka8JhroeCcp  
VUoiREVvYeRbMdkW/XiUk6Y9jUNLyV4Ys0dG76FPRCo6UXJUhbYWnQ992EnW  
suYYFDK97yfm6smFyAWutM0vf4bx118QI6S9eJFxyUskB4EDp8EFjk7GkRcl  
J1kvfFXwkrqBGwblphs11TBRCxQNoklms5EB3Oe04oK+SQxjK3wOSZU4XJm  
aT6PfvJRrkulzVIGs5alp2WWCubLhPiQnvXOIDi7SANeYoOGIapBQBtJzZwn  
k1VRSH9YIB6QeKIYLwKFQ0Ep4/amFqLwgeUrVxMDZuAIFS2Bpih0CQR8VCNP  
ea6GMHr8loX2+f82wfQPm/zs57ew1UUj7S9NtlGMBBfKLufwzHIPZFfhwkTR  
1KDGgHkzIGz2p0m4cVl3NeTgmmoor4e2i4R/ypwqVanC0FHHpaxMYSxXWcLk  
gAZkt9SNDn9XTIp8qmXKVKZFhjmR3QFTP6JyYvF86IMDIIfMiUFVmm5v5EYt0  
RHkrOZAVKdSqorkKm1icXhdlQNayAuWbQUmrlYIgTnKOk51OWeMa1wnXQ9VI  
bGSrZ17JxlEZ+EtahzFS9bl4E3/2z5+I3adhDYqYxgFMoRMdnEO3BkHChbJv  
pqmg4xTXr84ydqSsEel3SHqoFnLslE2RU5+ok0qathJQrqXpC11LS5v/yklh  
OF0dbFxxRCQOISEAAAtBQiRep+YTqPkDNqIWXW7Pm2mcgUVXmMgVCVVIx8UAJ  
ehBXqUjNwi5tkNUzZFnlite0mretZRQjXNHZK8oVp65yDA2zXnNH99kXAX79  
64VgRSS/YNG7/WTsYouEJoGFli6Sq2RIJ8si91a2kRHMrEYfd9AKy4bAu4IL  
m3K6m1H+7bSn1RzFYrun2MrWxJ2DoW0nS9Lc6lQhuZsPEvnDM43wLkPctJ1x  
k0oqpSr1mAUJLvCo68wmYtWqllEVNZ+HNH3mj0m46dZ4p7xW8711B+I9q5ar  
VqxCUaVX8WVYXb1012/Cb69n7paU+eWWQBZp/7BDymb0AMnYOn9UYJBVYOUk  
a9rKesyGqUMkwThKaP5h2DshJRhpGQhiEKP40ZCGpelkqeLLWbrFgN4NjHtJ  
RJAUE6k+jeqNaczpS3Gqx6g2JqgHYikAUdW5JQkASpDMBCU3z4oAzqbSBuzX  
KVNZrUZxK1OEXc4PmSUsjbYplsbcptLr1S7Q7mudDSrAJ2vrsNPO9kED9lgE  
R3ZwQ/HznzFN7sdxVpOGXlyHD5yoRRtlhhtL9p1mGul6y3C2Ka6pDoSz76O4  
mMM6HBWrmesRGjc3uIBVLjHp41yCO7zhxERlcJU7zZ8p1yRHq2KT/7trxvba  
1zllQsirezFaloDe9a/8NcwwJgjUvgzhODqbriCS6lmcVMKMZbfNg8luY+t2k  
R/hT25O1nW1MtmaRIBR3uMV9GX5nmXG2XCaza3mqIs43Qdtt9Yvoxv3yntF  
rJy0vcM+YhTX1qTlTmFsFkXjrH7K4CBJOMKje9SViJrUxfRwzv1w2MClyLX  
Ld5VG/SSjDMPaQLt+LTzW1a2WjmckC+5yScfxnBbvnty3Rrag6OwMEM0WZ4H  
TZXMLM/TOGZg0hYs/bC5LejNDzAgeBvR7UymDOOU6bjnunttGJQc9J7qMpCN  
8K0u/EJTXtd5zbQNR9AbzsMc5o6eKb0jjUJZ1nTSZw9Wmxz8b4XgWKjAOyL/  
VEM997kv1+7IL3/cBT/kjQg3d+HvdMNTol3CQ68jTWpy7AdsJLLq4OMj93gC  
WGVhtBRBMAJW5ntD4T1JoUbJlhkdox2590FQUkP1dRftl0+pJ0hqMyRH8l+E  
BVD8R3Q851GtgWgetmETOIH85m8WODYwmGbP9n//F3zodoN9BRvvc3zl9m4s



tmLPB33CYVpiV3Zj92jzBksjdlrb927+pnw5lBAjw3b5QRDpd4XQdYVXaFUJ  
B1wz1nYHIVQPR3FaiWQQtMUUpiXuFIDQeR4M1GHKQt1YkJ4Ald4DR0Xt4uIBJ  
oSKG8HVrESwSulLbcUAYSDYYJTzPBiUCBliMEWCH/4VF+zeCi1ckwTdhGZaC  
gph7LLY6zulszzaDsRF8xDeKoqiDPLiJKQiEqnhbypEWYFeERYhbszVLq4R9  
ILZvmwiFjtl658EE+HARv6gS5KeF4yd+xHiMn8JUQTV+QdZUxyN4xBUAUeUS  
tZYqzoMt1vRPHhd8AEhWa0VWjkeHeuiDeaiAWJY9YjAUjXZpHBN6oLF0XdIm  
aPaJ84hmG4gY1IYTWvRzV+Rd3RJ7s1cYJchRUDJSqJiJTNeCUfeC5ph88GNf  
DxmRxVdocDNebkh1HtZ0yoGLMwSEQthGtGh9sYiEtIh9p2M+zHdp/xYeZ4AP  
LTmFEhdvc+iLUBUevviLNv+Zkzi5kzR5jKG2fsGVQ8vIVBKnRMgDPG53EdJ4  
EUfGVVPEXfgniYThf2SFXYDnjeJoeWyhIQpIRkExWV/5flmL/BoS/VYiGip  
gWuGT3SGT3yxa7pGE6whlZM4G421WbCxxKioggh5KAo5Su4Dg74XkfVFmLFB  
kYRmlb5Wg+aGGQz2ch45Q0QYU5Q5dtMXQyKmOacVJ00YdVB4Bi0JmuEBk2E4  
hTZJETOZmsC4mjMplDeDY+4nlG9HIGHIU824TCwxccsIEkCzm6OChht1NLPH  
eFcJh3NoXub4hA2pVtmTHHalGfBfBxZS4dSlqGhOoVZmKZlmlOYkG+WbThB  
QN7/uXOU6C88eHt9eZ3BgYstBnW+54lnSY8bpWYdBXIXqWjNx3kcg4t8yXyP  
2TAXhG/1dplIB4t2cn37yYpplwMs2aCNwihS6CgAsos7eRDo8FQEWZM66Yuo  
qRE4mUu9qEQEMI0KUqIHojzUGCHAqXGyt3jFCYfh+Hh9ilDCwZWW53hJEZbO  
KYcHSDYpuZnpmVYQqZ2xgWa8oRrjmaRKqm2liGiqo5dSp5craFvs6lnLuZxp  
eZYXNpWMSZXC+KWg9aRRKoRA+odbgx3TN5JHiJkyBW+fpJw45aAvGZqj2Sgj  
c6cilzJ2qqcDgacX2ig51lvQ9TukmackcwYCGajDQyA6/7NMU8UgCxDsZab  
0mh/zMOGdVaclgejMpqVVPYUMsCjn2plHwN94CaYl1GODkmk3rGDpuBXITGQ  
FoKp2jhtibWkLtpuiCJa68aXfgaD0CmdeZmAjzekQwqK+LVzH2eVzFqV/oef  
mXY5L6eREfgZbKqmSFiLS3hVqPOMnslhoBmu4hqu4YEO+GCuUpiuhoqnerqn  
6GCu79qn6VqnhdoA6MAEFwqvHzoQoKkQ/YqoZ4AO/XqhiCoQjDpd0wUCSsSU  
0cSbk8pdhkeriPijSeqdHhmA2gloXqc4SSHVaZ2vsouXJmq8Jml34Fmiqhz  
FvJz3vlqgtWPLYqrbairNlt7gv+pqoB2sfKpV9mpZsTZrMvqrE06Wv8GfRzZ  
Jgr2ipQTU2k6oJp5oPn2McrWkS3YhLrFGm9wBlmrtac5tS/pkvQ6muQKtmT7  
tWE7murKrnzqKPHatu/6tokasAU7t3ELsA0AmsoAsB5AsKCiM1TFTFJ1oIGk  
lEdTMzCLbRNLsQHYqfPosaE6XklqTzmao2MzmPIZnai6ITebfHjZSXIDnojR  
snBpWppkUHIWI0UCkEv6rl+DI1Caqpu7nFmJfBgbucZqmBg7dWspEALtFVH  
uxlJpf2WHOzpmHcSMUdxfdiarSLpQo0mdfl5tTrwBt7BtRQvVmbvdo7pw06  
ruPqkqH/GZrwaq4OCr4uebfherfoK7cCK7DhSrDiKrDqC5qxcAb1673eAxj  
mkRMoDP96wEnEcAlyhKD67AslWvrACGj2z/rsA5TlqyKiZUkZwhdGsEvmnwj  
F6qOp4DBWxdcZ0PjllB3FcJaqhpe6lnSFqumCxcgLfEUC1o8SOxixt39Jyrod  
1Ll7qZc2qoCeak/Au4OsQV5U6YaRu4MQRKSjaKSYBmgsZryNtq0iubxGKGJj  
mcMcNr3Ym8XU27VcHL7gi79jO6cB65LmKpph3KDru75gHLBqjL/3u8biOr+g  
kjP9m0SOKsAKgl0MIjQEHAAJfKkxkcaI4MBllbjgqLiITLFz/xhyHZaCPGtl  
33RX9QQLire7m2RhECyr/JRrLvxmMOyym9wkSlqVrdu5BNPDt8uqH8eY+LWW  
U7k/vfaGhXzEMssvplq70BsbCUamXxcsAzq1B1pbCPqANvUxTucdWoy9Wlu9  
Wnu920sNoAnNcAzHZbse9lu/cjrNa/zG1tzN2vyv6Guw+kvAAcyUpsKb5mwD  
DazO0tjOIJDADRzPDjzIFpLI9nzPj2uRRVqPkOcP/iAD/iwDGNkksVrImuyd  
rvfJVATQDF1YohyzJGjQsHxhv3t8RXq7BF2D+IWkicm7B+1xoPvRuOproKjL  
a2HSvNzLSUiS8zaLLa3SDvW6lKsbhf9Q0zadzDidxcu8zNa7vdTrzDrtd1c  
v9QLvm8QCw/wzeJav7Fw1G+AD0/d1EOtzQ2gDORRsDljx3Usov0LVQvb1eQ8  
uO1MwPJc1vAMzzlQAGINVmodtN2lz4hsUMRpCP88XsxqCv6AT1tKdK9HI6Or  
0IXHZCpaTbjW0J3sLZkKuoqNQR1JvO5G6K4pCP4VbVcy1fJqnnJiaP0g5z9  
fBwDxc6r0t+g0k64kGOaKD1QCKlt0zed01oM1DnN0zh9vbK9xQ9w1E3dxdP8  
BredvTzd21kL1eHB27LtvUxtv++rvIYozu3XtwQMVdJ41n5s1mVt2GotGL0G

tFeZyRbsa9n/Bnl04VfXfSSePGcuzMmGTXipMk3NE9hoWNIebd1tWdkmmJgc  
5YY2KNKzWqztzhrikW7r0PbHaXcg0CMQYGbJ+CdMKTsz+edJUV2E9kNoSXtOr  
zdqt7doYnuEarsz4S73AneEPcNshHtlfc1xbLcXSiB8u78Gca8+tZRRJRKi  
UNbqfBLroM5/3l9pDbP5Jcht3bseTzZbboCyXifzN/yneRXFJxcZQMwXqkN  
Uo3UaBEQ4uRWTtgb7hE7ter27vf+Yh/TdlOdrqJZ95lLmevHOTdvXMSeZ4W  
3Rus2MvPeYv7Np3Eq3yZvSalqPQUAcR3gN+/ucSLuiq7QwT7gzO/1AliK7o  
ib7ojt7oiB7pFv4GNe0M1Mvoil4llJ7hztDbLv7pkR7qb4Doo27pNa0JhYDq  
mo7hxa3N8ouo7RuwLm6FzQRV74rHuC7ANz7dDezHMZHWZ93rOX5FO35F8qzk  
MgHPvq7QN47rvp7ATg7D8ezkKIGNyvOMT3RVyAhVud4809RdMltYCs1PqlvD  
Qx5ln6zs/ajsw97QZx7m2dTA9LwOg0yx3K2sKNyYVnzar0u1ytGjEblIPSqk  
QdzmeZmCZIJnEV4M+7APPdDngh7hgh3xFF/xEY7oPYDxGm/ofV7pkM7aL5Dp  
rE3plx/qJv/oml7yrK3qmX7plr7hOz3Nsf+er/GqTG/bwOhw4wB8Ejuf681u  
49MNE/KM4+zO1my97vG87M++9O1O3clu9NBu5bne7VKP68+dIAGHuM8odyFB  
cGEtWLLGILK2cdH+XaV73pQ9ngBlInulu7b1+5WXP9IEMPewu30pD766C9/Uu  
A4RswUB+0KN4yjKlFHuVkfBJ8Hf0e7VL8lli4leJdUZSDMVA AJQ/+QQw+Q8f  
4QSg+ZzfA5tv8aAf+qD/AqRP+hZ++qn9As5A+hzf+hS/8R0f8iuf8s6gCZau  
CW+A+ySe1K4Omu+6t3ub88KPDjZwr7+PDjuf/FPf7D+Pxze+zrLm6zY+/TVe  
/cw//WZd/VOv69v/3/25npslp0TLHV3+G6jgD/5cmDwFzLB5LP0M/deJt+UA  
zmuzjN2jC8/aX/VTL2sKAhABBK5bFwBEACYBbBy0odBhQ4EBChYMglBiRIIV  
LW4kKAMBAo8fZYwk+dHkSZQ6EOhg2dKljiBBXraUGRNmTZwxZdLMqdPmT5wz  
hbJc+VEISpQfCC1l2tQlOwJpIXEYYoRA1atWrRli0JRAsWJfw44lUNbs2bM9  
1AJYq9btW7hw0faYKzcu3BcvnPVwVshZ379+nWn6O1iTpjdvHiRm3PjMm8eJ  
z0yejK6yMmXoMG9W5oHzGc8eQDfwUNr0adQebKi20dr16tWmYb+mzZo1/23Y  
qVWXnl3bBhMPDYQPJ86EtA10xoEPN068QWXnpKNPZ9K8QXUmrRu09ID9d3YQ  
lLlvxA0xYsOJESWuF4igonr48eXPdyiwfPnsvEsDH087/EIQACQvwPtsuMih  
9AiiSIZ1RopvJJBCQmpCCK3ySAaYXtpQ5Y4ZKmkCDGUoSydMCzxQxRLFEmk  
FDGskMIPYoyRkBmVKmbGYJRqakcee/SKLLSCDFItAog0ki660LlqLKvKMils  
ldMqK8m4nNHrhR6w7EsvK/8iLDFn3hgsTMTeKLMxyc54YLI1z1BmsjfdhDMW  
ZeiEU5kGMCMNNeHw3FM3QAPVLTZCBR1UP+NK2/9zUUUVRacBdEp7NLjhKKUM  
0ufOyHTTyTitlLrgGuWvO9X6K/AhiQhCD9WI3lsv01bd+ygAGeh7qEDuZAPU  
hu1uy+8/YAMMr7vXbmtNIQPXUzBBjxosqFZaBfLoPVklfBGIC0ka6cQStd3W  
p5i8DdFbcSS1d0WQrp1QRnZzbBfHHGnU0Ud6veLqqiiFJA vKfJ3UaiuuqMpq  
4H6nvAuvLF8oRGG9FCCssDELKROxwRjBTDGLH9D4AWU4PgMCNjuG4AEISh45  
llggwDMWTVmu0006Owu0M5oNtfnmQKWjVGFhKPxS Tc/ynE60TDs9l5YGWL5U  
00cr05Tp56LzOVTS+GP/jtjVCMS1PPYauu/A89Zb9b7TYtOt59R+Mw242La7  
7jsQhMPuOrZdQ7ZABQeC1IZX+1Z3QnLTHddcwgs3vFx0rUXqPcYRUAEQFT6l  
HBRQ2P0gmMgjzdepXT8oBN2CemE3q6eMn1grJ4iJAuB8XW9SdidLOvegJ2q  
HfV/XS/4LADYYisv4K8UnktNFMireE0eUED55RVYfmPoo4d+ZJNjeSBICLA3  
eXvut8dM5e5L9gACD1Kuk06UN4s55fLTTx+z9eFHjWWU6yctltLwr7P8N+tH  
+eij0Y9+a1pMLBRDGQQmUIFPQ5qmMvMmy5zBMIGTYHFkUxsCZXBrg/SNfkwj  
/zSmeaBpeHLTc0TjGeiZEE/BWSHPejadqv2JOzPcWt5sFZ++tUeHsuJh4iAU  
ksMFUYiGE5yE1iErXilrPRWwxAcq4MQYPfEDgaAc5oIBCndZDnTs6sQWPzc6  
Gu0oDU0ZYxrSYAQzqk6NqcsdVpbSIYBtBY08Mt1STBc73e1uSFIKWPCcpwm9  
HAaQh3GY8wwpPUQqAALLGxnJNFYy61EvZdaLZPgs2T1IQLJkmZzk9zpJJ0xm  
0pPZ86T/UgY9U6JsTUUr7Xyqtdz0Cbqxi9HYAiGzQMoo7TlxchNmQENCoUnn  
T7LJznlGhBtj2YaGypzNbk5DGgeC0JcmbNnRHoAlhf+t6YSg6SXVYPip4EhQ  
hKihld5uiEP6zEqdroqW4E4yRAh1JHErgmdJfsggkKjHlHgZSAUAUYHHqaBy  
FaDcB0AhUCxWLhgLzWKMvCgjL4JOdPViChzhuDqqVEWjc6RoR6liR5Bmtl1a

+UrBkOQWbPpRpS8ApMMEScjDPCCmymMe85qHyEZujHqX5KkIKZk9WAawTo4k  
WfjGt0nvqUyUJkOklyd5PUpGFarXU0z0ZukMWkKPMRc7IAJrWUulARCA6aOg  
MHIGNbSGCjWjAk7OSNXWD/6Mm0RDIPomw0o1KeCMarkeAutEzagFFoHC0VSf  
5LrCtOlng+tl1rEaq0SwtUr/WvDJYbQIV0QHTasgrjpittJFuAYx6Fw6TKKy  
CmlJSwDCEgAFaBNBATmAUq5yBo1RID4AiNviNhC2tS0XQddF4IpuDF30aEgJ  
Mcbi+qhGnbPdG/HFFJJGaR9moRJK88LHPwKSpS/dLiGdV7zIFU9jz7vp82jq  
vEdKr5HrTS9R17s9R54sZTDjXIF72IPILVKRzaNeUzWG1eVh9QECbp4znGdg  
BUBMwWIKk8aq6l//vILCGnNlhU0JAU4F0JSNgmYwf/YypYGsY2xi01ehBwAz  
9kAT11QTiQOo4Rf/765P64ycDvtLEWImUpGKa9l6lyxT4YaxBiKys55xCNy  
xCJ7/zunrZr1kSNWhCAWQfKz+Dkf16xjtautQJe7TLkuq8DLKqCiQSsHCNyi  
Gbe0jRGaHfpF4MaZuHMGI+uS69HOMddzS5mX7czyxo1uVEj7OCib+NhHhqly  
uyz1I/IE6dJDope8zaN0TdGbU/XqJIE6LRIRndppptb3ko9kqnvbq8hFlsy8  
0XsegAksafAaMsEJhtiBbnfVrUJY17D8qYV9XWGSzfevQMMTzXLJsfaqCXrK  
lh6K09ADyPhXTSDLpQBfDFSYZVtONRbNm4ottM4M84KI4mCWGauqc4vtbhNZ  
Vrvzlu4EwWo+GWE3u00b72Ph+zVM5HK/majaLnPZolEgKP8gXntbhD+xy4FQ  
MxffbDmHyvkaFB1uxYUrL4xrEelyKm6gPT7dlBGaAIT+XcLcogk+LtqPxoM0  
8mT98vNWWtlyp3INx5vq+EbPku5VNarr697yMk+/Q7e59Mg7Xlnb9OjMM/Bf  
lo7e5JI31RDGNCyvlz3sZT2VWK8fUHsNVayfr34vq9ObOq3TXZ+YE5yAdok3  
xmz0jVjXb/KYUmPWSxKG5oGI/aC4FdXMcpqbQENerLsVVGTADEFnxEEIQqgz/  
+HeX2wKWmHwFdtHlyzMx4AD3cuedCAqCg1m2/iQo6CMH8TXrdrerZ31vtyjn  
OH9O9pbr7cYh/lvc94h1WeB9oIX/URVhEOD3ZmkSyOnCln0QmtA9WFgfEX08  
4BXy5dOPdaQpPX3rT3/oMF/1fvXLX+eIGtXj/z72Zd1z849X6eZnf/utv36a  
+pe9obYvJid5MvxTGNRX53p//d8xT0u7+GseAFg7FYM7AUxATuu0OiElmtmM  
0pCZGnugHRUNQOkNXDGW1iAID+BAD1yHZCo3ERxBZeqO6/AAS1CFy5u8XbCE  
XbAAfkOtzptBGhQ9UPgyglIBFaAHFcgFeuBBevAnQCA4hsstKgl90Ku9Lvqc  
QOiE3XJC1pOR3prC2mq4NEO42duii/OD0dk9jLlj3yuL35uufQg+JJKS5euB  
fcCmLOmd/99ZKTh8AfebQ+wTOkPavvB7OfQ7P5LJQ+97BfG7Pu6DPzpkv2fl  
i0JMxKdTQJ/SpPg6pf6KHpTJnqqbnkqMv6aaOgUoQAIAGORRQFDUOaJyE46p  
mbKLGW/LO9DQDGjCjNBQKw/aFWRypkXjJhCkxcAbwQ2yDeuomrfyAFWYPAsI  
RsqjPGGUQX6jQWXkMysrAHqgBC+gBxfQQR8UqCEYgoF6LcoxOMpRgt26Pd6y  
rSfMs2+8QtX6loNDs9dCxyt8PdijMzljCtbZKGH4Pa2YlMEAuZebOTVcQ7V4  
gU7sAtD0Q5V6hVd4AYNEyINMyIM0HjiUROd5Bog0Jlk8v0Ninv9XUCRAdJ6M  
5MiJND85tJLpO8hDXMhDjD6RFMmV+y5ba7o6RC/ogUnyw6mrQ7uqy6IX4jSq  
O7vuMzoHG6832EROYAtnULbum7pQVL/oGTG/OsWjgR9eupMIMkXP6JRYxBkf  
cyatNBsPMptl+krAC0vb8MVIERqqiRRVWAJViO1VIW2dEu4LEYLGMA5hMEZ  
5LhilNdaAVBcAAHqAZBuIM7ild4oIVPcldcELN1JL1/6jzQKzg0Yzg3U7N0  
RLOCu8EbJChIZEwrpEwmnCLbeiiIq7es8dAw519BAC0UM1OHMgXIEgAQEgA  
eIXYnM3ZVEjcTMhnelZX2M3eVICKIMj/3axlihTO3VQAgzSkjqS+4nINAHiG  
3mkp5EROG0zO6bxOQzI5k5M1hUROhaxO4+FN3nzNg7xN8zxIhMwL9MRN5wEe  
K4k+9hMv97MpooOwpLvlmMRPply5SltJ5QIKSOudTnwBi1m6WMPEAWS187lp  
5IHnzFANzPA0TQKZkvkYkEkfmCm7PKGTpEEN8hkf3ZCZ0vjQCAzRn3IFrOzK  
FC0NG0MscFsCGI3ROGD LGXVLujTGuQzGutzRHeWAMTgFB0ACJAJmWSRMHMAB  
aawCesjMzWTSLjOof6rMko28xozSIQCEldhMIRRCz1yz1gNNKZS9LuQ9Ms0C  
IzDTq0iDNBU+/+Erw+kSUDI04HczYF8Ttk0yNmkTTztnRcYTj/9U+EETuAM  
VEEd1PDsUzlkqeTbB01YVFCgA13wAnfgCwKoTt8cT9pMVOdxw4PqARXogWJ4  
zeCpTvVUT98kz9pMSLb1PO0zdtMzzhExl+8z/NbJKWktJMMnoqpqjmVw0+U  
OprLPpccrJOckSoxJumH9VQVdUEGsqWcggE7oLpR7AVKzyVqq0At9SrtDH7Ez  
DfLJpBENV/IZV9TgDL1D0RNdUXU1DW8LmrF7kxiNV7WkUbaEy2HUUR7NV0no



SyB1gFM4hWqoBsKkhXg4UmmcRi2tgCxVxiltzIRVxmtU2CytUsukzP8hhCln  
ikw1Y70uuuZrKNOI2D0zPVN6FL7gixLVINM6dc3YFFWXXVIAjdmYXUMseUNB  
2odieCINcAc6uINTQIZToIACwIMb+AQvUIEiMYIuywLgUUNNoAaUM4II0AW+  
vANaoAVBIgDg6R1Wpc3YLE/fEchXEFuydVVRjU2B5NralE1E7c04XLRZZb9X  
OKN8nJJKARqyFu96gQ/yIKAFFaWBC9CDFzgtTFm+KFDlqT6XS9CgRDqI489r  
SgMlylLdugbQI4BNOzsJ3RhRUpNMAp8GBJ+j+tyjKl3xOd0PIUC94wzWRdd1  
NRSacR9QMh/PaIElglMWsF3bjdca6N0ZLYP/GQ3eOJl4bWA4W0BLDABfuhX  
fw3YeKgGHDDSPDjSw9RBymMiGGTGH9XShe2ylcjXfK0AVWjY0mvMzKwcyjnC  
1ms9PwiE9nVCP+jbMu29LPi9+hWGNKjH/BUGTjDZehQ+OD3ZgexEAI7Z3pHZ  
4QSAG/SFF0g+UKAEOkAGCY4HOqAHd2CHO7gBZBiFUUCGIr0BEAYDEAZhPUgA  
VpgAotUDPUAGPMADVhhMDwaDR3iEeEBMYHAAaaACH5iAeBDhO1ABI0iSsqhN  
Ay7g3klbJDZg1kxZA0bVPkXPtUXUvNjN9AxU4XxlOnSGZ/ADbwwjQuiBOigE  
gSSA+FWCNFAYMJE+/5aLT+mLNTkswCMOk8aNUjZwY5lyGDPPhzzosHhQrYyX4  
YzPez52Mrwm1pM+9L5NhXdYFH0ZeXVeUme0ZHxEd10sa3fv6Hg7IZA6AAxi1  
3Tjo5Bqlg95dS+ENXuAN3ikQBCRG3n8NWIEt2Og90jxl0hfk0ResABjM5Vve  
3hkEX1+eS0CwgCklvS4bZiUo5m5cX2Vu3/iV3zl1AmG43/2d5uDjhHq05nrk  
XwIYyv4dShQDYGFg4jk9YHJ+TmH40R/WwQh2hQtAgQTWAR+4ARqIATSQAAlg  
BSe4ATMgAxqABVgwA3iegRIAhk3AZ21Qg3jGg1rQgxhg6ATAAx+YgRCYgP8Q  
IMwbwAUMOAEf6AAzmAAJYABLUMOyClvjM2AzUuLWNGIIXuk6hc5D9NM+PUmZ  
/tP1xGLifDno5GJvnJEghiOdNuOitlygbE6HVMTgSdkiIvAxqT42LiSmdj8U  
6wRf2C1fUAJfwFz+2hhBzrmc2iIE5ilRWqpLEmuVOVfSDdewBIH8wR/TYB9G  
/up4uANgAAZ24OQlAIe42N0lqIG9FmW/rtEyKINQ/uQk8Et+8EsgbeVqOAAj  
RVJZzoM8cldfnkctcvuXwpUHKnmzwDWZhptJi9uyGZThv9EZIZr34dV9nnl/e  
MyP8zd80sGbWfu1t1uZthuPe4V9v9uY6vYpwdkP/RIUBXJCFW/jXU7iFMIAH  
JHACVkcBGHCDC4gBIY2BK+CDI5iBFp4AgYaFGYAFJ4iBW0ACHyDaBOjoGOgG  
H3ADCUCDEnaCDpiBR8AEMDADM3CCenaCCeACEZiATzUCHVSBBezHi3PZm3hni  
sjAjA39tMyKak2ZpBndDI0ZghuxT4HTb3lzPLebib3wjQgBkQCaAN0AHEIfa  
NcZiLOZO7nROBXdDFUtiEy/xkHxq7CvxTSXjZg6EqRYGLL5jmKO6oqo/nvvq  
8BEZrw7yREYqID9yUXukOSiClugAHj5MOHAHKb/r3M1rUW4BDdjGMXrXdiF  
xPZXB1jeU1jIG2hsHJhe/8g+82k0Xs1uczd3c87mbBrsXi+70grg8NEm7dJG  
7dRW7fnl3/qIzvy95jQowCylhKGS5m3OggqghIXShVO4gTtghx0EQnrw2TCI  
gS/YgRMlglwvYgXtWYSSlgr1o7hhwAjPYhE1YADeAhRuABR+ABWSYAQIAGQvQ  
Ax9QYRLWAzdAgi/4AvRGgxm4gQko9hmYADAAGxAAA8bGBMaOB3YgWjC4Ay+I  
CjQqQP4tQE5AcAPf5v59bTQ6lwpvnUJHsZUI4P4V5wY/YD91Qz3NTSI+4gLk  
4uD6KEDA8y8WYzFuYk1tT5Z7yLxAsSxAcN8pEwTr90QNnvZsWpX696btHTQi  
0/++9YPYxOk0GJ2klqIPTMCbID+WXAwwQ17Uhr3KS36kAhJ45aAMgSHkwqGEp  
I3lvoHIYtYQW8NEx2GTchdFdiIN/DdJV9kvEFtjIwUXOHM07/JafnOIX/od  
1VHOhsGlRxoFJShsVAJQ+OOOr1/M9Z+Y+93PVXrvWDvtCXztOQPTgi2ZQ2Mt/  
BYZMJwHojvQbqIY7qAY3aGh8doNmilELQG83SAAJcALAv4IYkIBaGPYbyGdU  
H4UVolEb4AJ41oMdcAM9+Hs8iAHv/gJbwIvCAM+oAEyUIMZMAMJiOcbwIQQ  
CIEDWHYt2AQ3aOFHAINNiAdLqlqh9FuyL/ROLHQ1FT7/NR34NPD91zZ34U/Z  
sT+LdF932HRphOwBVb1NKkZU6OQELmxC4nqKe7/3P1ZTliGA1d72Qo8+WfX3  
N3aS388Cb2a+N/ALF094hQ94Ak9Z+HzNIC4LP694igQAek/qlzQ6mgMICAoe  
ECxlcCCEBwpeANinSZmodegMUiQI4SLGjBo3cuyY0SJFBQNFPviFqQ2iZcse  
uaPkbpc7L7tatFjiDg6HbMCAZeMAB87LXeIOneJ3StApJA74IWF1Kt4BqHlw  
zMvjwmqeoBbiWOjq9SvYsGDLdCVrwaxZsWErWGALqGuFCkPkDqkrF1RdUEqU  
6FUS6C/gwIL9EM5C2E+WxlgT/zNunEaYsMfCOGWJxMIPJF+gghmhV8ydoC8n  
GIG5xegEDBgXTtSaoG2Uhc94nFyRcMVJDCR6JKyQMMoJ7StuajmZQePKIQQS



brBaoGeCHuYo3DhZIMFNjDAUcJHAQAWDhAQJaumhQSWMDzMTwNghM2GCEDVu  
UKBQ82gYOGCUjHzIEplyGpwAwEmABEKWhhFGpJHYggqm8WCABHDCiYQUTlhh  
hQAQQAAAHWr4IYceisgQAK+U+IKJJr7wwjMrAvDMi4YFQlgnfiSYxl45KkEI  
hxsS4FgWabS44gsLiWRkkQcKQciCWVDoYQ9vFOKMSCsuRCSWRGpIlgBEEILgh  
AEVeuf+llxsKY0QWhDAW5pEKPHMZyhu+oMIIAx10p0IHHamnAgK1iVCVAECm  
CTrkdDNRRYk+4BGjjX6UaJ0KDVQJliEcgMMBc8QTDzLx0OEOqEsAI40DRyFz  
AzJg0IIDDnTElwg2LrQyRiutJLEUEkh0Gs9ULkgxC7DB5rLLLnEYWwayyZKF  
7FnLOttss8oyO21aallrwVx01bWtEkPgBQq44eoFLI+CmRuYHzMehlhhjv3H  
mC8tEMUKMHe0wo4gt2zQRBMk6EOCLLaQsAMMPqCARgwnfLfDFUjEclEbEqDg  
hBmwSbDDAlewUpsPeig3g3lo7PBFdHrMMIEZu6EQhJlfuKH/hxsXwIAHK3p0  
TAMNaLDyGw0JTIDKJmBwEc8mqZID3wRc3BDCJnd4AYoRBC44oZOUEdgYgwxC  
COGBkFEo4YacQlhbhWVb+KSlaffQIUNthxkmQ4YhRshiXh62V5w9bljmgN6k  
4TfcWFapgDMuQsiggHIWMuWVWTq+4oYIPpgFmFlq+BiXXHaZYBZGBL4QAFn4  
EicBL/RA50h8/r166qtLqgkEL3jJSZTkkIoOjgbZqShICSvUkO+LLoqR8lqS  
dHykJNmBSHsoVvPELdyAU8kdn3gBhyCkIolMsiEkAf4edwRjxTz4AAMHfjy  
Y40DTd1x6QFVzPLr/MBWQYkKx5YR/4e0/StbVln89yxkceVa14rLthK4Lb1k  
y1vkIpdfABPBQpjiXIHOxOjYxS7GWK1JwVBBKxrRiA0wwgHAIIEcNkACRmwg  
GcdlhgpP8DAYLANOzgBI3CBAVs0lwY72IEbdhCD9PjmYjuQACsk4AQ8+IAV  
apjAxU7gCAr4gAbvAcIcvmCOMDDsOj6MQTfc4IMEoEAb2piBFm4AC1hs4gBg  
wAQZMBECPHYHChLAQyke8YgQIGITKggGZzqRBssEqUlqYgximqTlxHDCCJE5  
UNjCBkmwUfJrX0ubh3rUlb15yG0egtNhOocgwijhMGkgQA/0ZrcH+S0NgXPc  
K1bkDCVNrv8yp1RclWT5uMdpKDI3StArO1QmCnVpQwwSxucUAAAJEKZLqRTT  
kTSBOtaxTlJtytORYHQmALxBFOTwgDQHqQc8kXN3vONd8HynzoLYqZ14aucc  
ijANIBRhDZMoAj6HMYxSgGF8Y0jCTpKABTP8Yh6eOKgUDuoJKeRhDGPAQjVO  
YQIHVAMH4XPBPOgHLE9cQgWUIEMN+FeGGpB0f/w7FkpFKq2QCIBZli2gKsIS  
U2spsKYlpMtdvjWunUawgoHxBSEAg5hlsCsSITlqYq4BQiTIggQkyldTAUYC  
eJgDCV/AwAkwoNUTiAYXuAhDUzEgixNEVWHnoQIVsnqCtZJ1B07/SNoM1EAD  
FMQAHvAYIH5oIEQYOFUWfg2DG9zwhTCEQQ/d6JhtJDADWBygsTjQQgf0UJ0Y  
DDYM6gjDcm4wgUf8AhZVqEluLBEIqKlpb0gRI3ktsggMdl/jRRGhQpUoCdZ  
MnlDciUmhdkjMOUWbgOSW7sWVMp1nRIaA+tb1jg0JCzFEku/Za2CCIRKtbwg  
l7vkpZcmQ4DIhEhLW/pa5IbJlcsxxpk9eAGVFDBNarK3mnWcKlYIAoAnboWoc  
uVMI6iSIX+RhUyDBU1RCKifg/UaqEvispxDmolUJaKEIQKhEGsGAhCucohqC  
cEAPzcA0REwDE5ugxSdoBYxWQLQOIhbB/0J/JQUUe2IWnshoKlZgAIWAIKQ2  
DumNQarjG/OYfzXY30itxVIC/q8MMTXyWQw4hK4sGVtzSeBdFtgtcHmrLjn6  
SwQ7cY2/+EFHmBlDJK5xDVDsoxheGkXxo+pUFcaQrFg9QRh0mA+xkjWqTQVY  
GDDQne7UmQQqJEFaUdANPExADV/EWAFQQMYLMCyqdpWAKyjAgxjEAAV4wIMe  
FnBEGsDiBkEDg3ES4ANYFGA1eWbEBSRgsvdYKqG4QMQBaPApenyAELb2A2rX  
petQGjUxUWutk4JEIAE9SGoTEtCEBnTsAfW22Upal2GC5lcaTS5CmRzkgilR  
oLdd10WUYW2Qzv8kp/NiaUivdG52T/mf8WqpbGV695MsN8jOofK8hYNme9sr  
pleiZJowUIJ1RSEKdKi34OvF5p5adySBWPOdDi+nNesUzYILAQgd4III8DmH  
ORyBCx4/wirI0IEO0IAVSLAFBoyxgQ1ArABZFMROxgCMMUyhFeLAQUEPOotL  
SAEHVWhxVQxKjIqsgcdGPzrSbRzkIPs4yD/uHwCTbECwLLnq2EKgAvHSLW7p  
qC+jHZ20MuiLvejGO5gxyIGEYXVjHXP3eGOM/Xs1BPoUKvdoXNUscqItOq5  
BFHNB1RxcQwM3NUHmIYHBRgtAVXPIQK2ICsOMZ3EStP1ZQa7QMYWTwP/Mmgj  
BLBAWQfI8MMT7CAftsCsHvSghmGoAQyNvdR6aJELFajgA53oxAV3vetocxDY  
3waQsYvdlQExu/jEdza3GYIm1Ram2lszbo+CHWy2Ud+4K1ouL9mmAZt6Lxr  
g5u5X3leYQbpl5W7PtIOaSGwldNy3z7IM+e0omkWCZr1X12LImulNmVyTgL3  
wAPQyTQFIPLkW5sE2J0o3PFEXL9dkwAWXAcAwRp0wIHnWSRMghAlgcetgh3Y

ARccAQ3ogStgQD5YAS+UgDnEAA/oQffAXBL8Uzy4AC1UAYoFiyccQB4YVFW4  
QCp4gij4WNIFoRAandO1P9E3dRhixJqS03V/9SUDcGU6UiSdZkfWMAuLAEd  
nAlu3MACaNoXkADk5R0JpJITcQdWeRUjqBkjmGdkUAYnAYurBVW6dkGLEJ3  
bEAJUEAYoMAKhsF51IYT+IAPSMBq2IIKFZYeXBoTKdog6oHI7IDM0JBkwYIZ  
aBYf8MFvIldTYUAMSIAPzAAX6AEX7JGrCc0mfElu0AOtfcBf1lju6RrWUA3V  
BEjVRM2w3aJsTUIe4JYrhciH9NbkEEaTZE21/eKAaFskIKMr/ZultMiLeBuD  
JFJidJ/pXB+LkAjbEEkqKYmvRQ0wBVMkSciAgMn5EUlsnVI17pKRHImV4Ntt  
9SK7VYnsaNecrMPAEf+gwrIgvkGcAa5XmzzgA64AEPwAEAyDxk3CKqXHB8zB  
GrTBKpbCERxBLWSAN2xDI5RACWRAApSCHjAAN7CCzKVCKkjBiWEDpkjBJVzC  
POjgSn6WKLjDEtBEDdAETdakTd5kCwyhkBVhS/3Y00HdskgdkzWZEg5IEx5l  
XfhCBRhBGDQCK+jCrFCBG2IAyezAzoxMnLHVWg3MCOoZWl3VnP0dGKLGnckC  
WMEA6YmGD93QF3zBapzAakBiAYQBwFwAGpSHx+DCF+hBDJgDPHQhfQhILfjA  
KNGmzFyBDFVaAtiMGcgVcJCBcTgBwDnCpp3MDYDBBPQCJiBCPIDBI0zAJsT/  
gzvQHiv6Be7dniseRmq2C7j1TStVjZM8RrEVmywOm5JkEohgkoRoG2J8Gwc5  
UiNxCCfVJrb51jgqF0M4Y7UJI4OgknF10otkDrmZznkZk68hCDIFzvDJpoVs  
2zhmlzRyVzVSlzrq0v4VyTOEYyoVAnmCDmTAVpGgwzqcQT5OnD+y1zM8w8Tp  
YzQRyZU0jTNCZ0cQsVNQxEMwyNgAibYwxr8QAdoASbYQT2RwSoUwRFkQAF4  
Qz70gSOQQgFwww58qBqMz0LNAi24Wh5gwze02CwYVlse1DykwjdUwXQhCTU  
5l22Ql7eqAboaA1lwKzKZE4mXRn8A7L8Qw0YKZKu/9RI+aQRTguTkQVX7IIV  
FmXVWZ0CxQUoVACZWYIwYIAR8AISmIM5CAA8qIPCyMwVNMMV3AASzOHjydAt  
ZAFdoRUS5J1YODxeUYAsYMAgyJ1W2UIMwAAGqMYFNMwO2MIX2IjQYMwJJAMJ  
xEA9gwD6NkK5sri+QADDCYNplfHMIBwnMAtBFbqrYAAcIEIXlwWzEATxQAV  
UCYajMJlasEj2MEqhAAilAlmoAIXTMANxMMnulNoBcJeEOtwjY7Y+UEGsQso  
6dq8/Z5/TE2BVM228SjubllmzeKCTM6E2GKQhEj0WY224ZaHPIgvigiECONr  
lo5zQmfmsGsqpZlxLZLnaP+nkkRNhMBWsoKNeDJEgXjJdHZbeb6A+gmnJsQf  
kUQNZMwJOjRsA95nvuVnJ80Jf7ZJO2lJnYiJxIYCEBzBMAjBI+QRF+DTGkxD  
B4ZDxs1BKZRCERwCH6zAD2TAEzwBFfxALTCAEKBCCDxCKszPHdBBHkjBr7Co  
jM0DRomkONRBFWDDPKhAC+wBTcCBjmpATNKKJADpHkDt1d5okpLUP+TkHsxk  
146Ukd7YPxipsvjkTwpQtCRLksVBBRDLLhAlk30FWewCuFCCUgXDvbQCLgiM  
d1BBCahDWoVBVmmV3K3VBliBd+yAoi0ADlwMV2UVCUAqGH7BFcBAAYiVn24A  
G/z/KeeeJQyggFuSQMRcgDEwwmJegFTiAjdg2gmokCy4QiKClh6ggKqIxlhp  
B8YMgqr5gBqQB+Q+HgkwXiD+wAkEERrcAGRqgfOGAPQeQAJ0wsm8xw3oggoY  
qxKMXSn5gvcicq/cml2a8YihJX5NQBjL6DYMwmyadq262JiMlyGsF5279iNUU  
Uto0Cii4Ui0R14KQiYisDScQQjH5yN78CDE+yfdpyLF1CYXoq9jliXP1ljqe  
jsB2220JiPeRj5G8iXadDjWcwRIQV8X+CYxwQiQ0BANrozNQiXkSyStwcJbg  
rBBwbCUY5DBwrBCsghaQgRBww8iNYgiswhGUAX/QgBnE/wcDFAAD+AAx0Ooy  
/EEbhIAXHMAfIAIOyBgOVEIpIEIOusAnsAoNypgL5AKoeAEytMIS4MRPVC0H  
vLEGaECO6ijWBqIMxgFN2tjXnm2RKqmQqW2TRkuSQZ2xEaso7AIIETyXIEG  
MMKEYS4uIMEt3MIKfWFZ3Vkk/FkcmiEeWoGfuQIVXMAFJAB2JOoZ4olstFAK  
MK4tUIEswNAGyMlftAHfnYDpyUJVSqUxiHIMkMAxFICqjYJ1OEEtLMAFhAEM  
uAJ91AINdAAKWMcgsSb3AJYbJMAVXEABJB4KeEwnQi4KFPMP+MANmAE0iAAf  
2MM4Ny/0hkAPL9gMzIAQjEc8qP8AKGhGjnVNXjv9n6v95LvK0YbjcDitHoJ  
8t0W/CqIlg6jflWml3phvkkCrrrki1gBXyRQwbxm0RRvw8mVN1DgnQ1SlgmzX  
g0TGY8SbloBNBWtjNZLbMywi8ibhqxlD1iXlpR06cy0JljXf8rjOlrskQwl  
ZgdPgx1T2eTxl5JczFXO66Nj8CWAaCqCHBDQd7wgY1cAohAAtdACHxBCIAB  
9E6CAYgAGRwBZBkAA9AAq/7CI6jsHCTkMkxDG1RCJaACJoxi8yzDAegRq1wK  
qwRNPnWALVCCF9CBF7xETLQCHbRCBHBAtvKojj4tTWoAHCwBZVN2j1YPaDt  
SulxSO3/QtwGULKI1FbEwRrXihdcg9wai2q3wimUQFqRVQngYVa58iZuwDGs

XArkdgREtIjHYSarkFa5gmo4B8Ho2Zs11Qa0wwZ4VW4nQzKkgOliB2pkVT4k  
Qxy+YRiwwBXsgGUdAwX4hhmlAM4sAA8swMuMxwKcdS3MRydSmuBylg0sx8Mk  
3g4gAQ+gQMcssaqtQAeYARn8NxnwwQwc8RptZgisgcW9RwJ0QC0kADJ4AT2A  
QiDlxV74wpiNHT/3cynhDfmuJo10gmJwayMhmyblloTAb2sGiOQwdOTEJv4K  
EwB4eLtoECx6jgHDeJMYsl8gyERjjoh4ybaKjYhHRr++o3A+/051/vileNeD  
GNfpBCxDCDkqVRd7XI9P31+WVlKzXkYkCPXBoie+yeOKJLWlxFJzMTXn2BoD  
BK8QOFgOG6SB0YAliaAD/AB/T8MarEKlhMAYbMEatPUEHMIPPdUNzAEYVOIR  
LEMHzEAHJAADZDUr8HcpGBjJ1fAjcMPKhuwjRMIN/CzRbEr6xAQt0EFP9KhN  
2vGszloXLMEVLkGNZXYLIO2PxQGNkVQLSDbt0QPtsQWzbEUca4CtEMUt4Mlp  
0ME1eAE73AslcMAP+JksuLJfSeUJpDlbfK4vr9wGrPJz5/bK+WkJZLJXopUo  
M8DDGAMJlq6fYkAKYABzt0MyKMK6c/+3G5yAotpCPsRQDJgGDERMDBzDMbgV  
HpjBoi9eF0oWyDDAAuSVKMPMBbgCLODyDpDRNgcWJlaBYgrilOiBGRjMgx5B  
L4DBEaxBOSAxGoUAJhyBewQ8yfvABNyBsHJpAonZEPjCzH/vPm9vlw1XRKem  
EqTWIUkjgBB5k/eiktdSazqILhllmSAwazV5uZrSYSwrtC3GNJljb+W4jnsJ  
74Eb2hg0dFFIsHkju0EObgbs2nifbln92JMLu0E5Q0xGI8gXe9L0BV9J/p1w  
UA/1Pox5ubVjLD2Dirx0iQS+I2w0ITyBWbc5giLofZTCGmRcEYjAQkloJvzB  
FWPCIQxCRK7/guuFAB/8wCGswQTMgMstAAWQIAwYAysUAA/wgBDggRB0QFjj  
gevXAhObAWZ2gA+sAKeZgXKswB3cQclVw6eAivGzQ7ljOzAgwx0gQzVUwx2w  
g/EjMiUkMiUcsmGrALEswaqDVI6AlkctQfW7QyssgixYgQoJrhX8FXBvoppt  
gDT41cp58jFUuyJAqnP/dm63g24DRLINKVIs2rDhWBggVGI0jLEDwwYSEzFg  
OHGiG4yKJGTIlxGxBlaJU7lqhhDAooLFCQkEDJDD48EPhYkoEFjxg0ztRjA  
qCVBmw8yXNwUcHXBDRIePvA4QYEiQVQUtZw4IUUhTlwLOySgmSmk/xcYMAcQ  
4TgwKVyHEGMPHNBCwwwZGh06iKgl4sanCkOUDPF17doQwYJ9KVFS+LDhw74K  
+/KTPzOfNH0rVAj0gZARI9ciP46URZgwTkY4EUiTJY2wNABWE+CUBTbq2GnS  
GKn92ggAArsJxlZNMwAA4UayPFYtzlgwAsnT+HHuPIvt0GmC6+YNO3np5btP  
Q/dtZLdw08RPgw9NXHrwFz1evBDeGsD69gTWx3cfvLp43fbdCwfQg70e6BPO  
veMICFATTdojkMH2HHzwmReeEY4TPz7bh4B9JHwmwvY4fEaBCfvz74XdSvRP  
N99gK8AAbrippJhYiyFxiKK4OIIIOb4Zf+tEEI44I9NaPiBDxF+QeSAECYw  
4xBM1igCBQo0ImGRE2BggQcURBBCiDIs5FIIHx46JBJJvCBBhQ6uGcFnNAY  
RYIV2rzhjviieeOalhxQoJTbqgGmStY8ROZOlvZxR12gLmjlvbc8QKYMdx  
gp1WgAEGC3ZoyeMTdqpWbW44vPACiRRkSSGMFPLBwCNHfTloohPySYENWZJJ  
4SA2aOUomWSO6bUdglIgoddehVVkEYEEsSoEKDFzZAYUCLtBoVhI8OuGLW/DY  
4QJbOLJIFhI2kGWDMEgl5Ew1HGikT2eUkOIlhJAgQEzGGCAhIqOgOXMCwpg  
QAIztCniCDeOusD/IX99cEIPCfTwYYIZ7hKhK27D+KIAeheYQYhyekESFRxw  
QKUcMo5YpSwcwODjJLM4HiCJWIRoYK+QPHIZr8YO8wvxRpTTAnonuvLggoA  
+eADzTZzLpLPOOFetadPQy016lg7jbbZfpMNOOum9q214ljDDur4AFrw7OeS  
Qy84q3fDbjkaqutuMdU5G04rKNLT7Uwuvhv/tQDBDwBQXPD0UCCw+OPfkC  
7w9q6tjTpBD2/Othwscf9PBDCi2MBDwNjRwdAU2jA91wBMXrze7YZvBgCda  
FKKUaYAABxwejnkl0rmQGWCNcjQ4ogZDungzGmOP4KMOX4ooAOPyYg2/x9H  
mkihEzSgeEChOQQAYXva6IIBYI7OIR7NH4wQIQJtEDihAtO2OEKV06gAoYE  
4hKh+AWu8MENEgjDtKJcG1Hg5AabuAErooWEpCABJXi4wwQW0lwvmIEGE0AG  
MhblihsGawlfwAAubFERKyrDFIXASgmsJRJxEeQgJTilr3p1jBQs64btuJVB  
NnCrW20AA8s6CPaapY6FRGRWvcIFLhiBCwxQgRFucEOqkjGRifQKiCK5CAmu  
ELMjTOARavDgDB6BBx/ciwasCN4cyLCAHSxgAXoloB5qcQFWwUMIYdBjAsgQ  
MzOqRAI7ECQc4SgBHzRMC2HBxCp+BKQDIOMP8f9AUjy4UlthzEANRVCDGiYg  
BGTQwhKV0dk1QAEKUoKCL76IBGMYk4VABEixz3GOL4ZQtFIGIznlycJndnma  
12ShQkyDjXa+Bsytc00quFO1r6GuLHB5jPqSZAmoBkJ5/jtN9QpjW7SQAjq  
LMc2soGMHzrRmcfwpm2wkQxtaGOB7eRnQfo5kIMetx//5Kc67QHqegjHT38C



wDyM64Em9rmfEploc6Nzj4QAUKGmYUh09OSPRI0OPFQp27qXAMDEIALIQxD  
CLarxDSikQFu4E4N4ODCGIjaAYJFwwBC6MARRACENdCUFKQ44CHsggYWNGID  
C8HeCVzBAwMwAEzcMAD/CIZAF2j8gAWsYiEJlGqiGCAAIYoQQkKkLFa3OQJ  
MKDBAnjwrCvMYAJvYIbdIAAUuArATGAgUYuEIYEwBEFJyBBS6Ayih3IYq47  
ulhExJWPfFgJDRJY6xc2wAlrbCBZuLLIRdSBAYS5QlwIMVYPe2isKqZAEcll  
lkFSoNUSWAF7BjFlaA+CEfxRgCt6aNyI8iERH+JqlvkA7ExmsBP5UYEHKn3E  
lyYgJwnQoCryQ0FLsnTIHYThFnSMwRPjd4E41eIRM+gACgQrSJTQiwcLQIEa  
zMAFLmAiBH/AASImcQQw2AMWNwVDL9bArwmQoQOcFIIBgOGFOFjAAoNRAiIP  
/+mHQFwDI8XAkDCyAAjDNKYwtawMKIIBG8fM0prAJI01g3bh6LimmFtjJtZO  
QwDVqKg8+AFACbD2GO2cjThNc45uOEGILN4mPiJjnI0U0xyytJu6Pyl1rLQ  
G3Ta5z8o+It9zGbP1aGoPw8qRCHk0zjAlcZqAGqcfnwj33WR3WbmxAnmhYJ  
YezDPgrSZ0lfxCB74qc76vTDDxiwApcUYQI2tQMq5sAAAwDhpHjw0pMiBrsf  
ePQQZGhpB1ZwAQbU5AhcmAepBJAJEiChBjnYKg8uwl1agMOjBeCBCPhQJAAQ  
AgYlrG0JWYWr0772CQUwpB6icAE0dDW8aKjvWN1wi//4ycQHtdAKDCiAARjU  
RAILKIEsMmaUGHjLGDDYwZU4Eq5FOMIWaPCBNhTLCJAMhIcbwIU5vhAGCbCC  
BgyliDpuyG6CFotWlhlQRyhrIjgzwpWWIRqF6Gldx/kGPI72A4osAhxRYQN  
yqriRGB73DTVNQxTGS5x73IFQV6ACmFYgAd9oAY81KIADNFDDBJwAYxfpCbK  
5UIR4meL+e2Ajgm41wogxgVU+AhJ9pgDLMAQAp34oBe9KMcEYEE8LiDvjDel  
BxwsUAYAB/jApQTFZShsBAXvAzl8UYzWazmEynygE0AzjB8cA0wG+yFoHT4n  
J5pTHK2NmGrg6aaKsPPNFcf/Bjrg0U0hNKGaSDTHD8kxTTkJIRnelAc8z4xN  
ZAhxjcl/xg+jYtYkOct5mmNvlRnXU4LyDdBCjJT07cPCf3Aio3bj5tMxHh  
WKdlB1IOdQlaEZnJDFH5MBIwqH+BmkfPOtPguG5AoPMPgAAELqzCDn/4EQ10  
VAogPKL4xV/5DB4tAREcD790uQcMZJcAHE2AAU/IRLFJoOIGINUA4OASChbw  
hEHlqQM0WIEb0aARW9wfAyzAVWtF/QSHWHcUYAAF3AANFgAlzGAFCSd+YkAP  
GmYBAsnkqlAEYEACJKAamoAEGmEIKICqFCEKLAAMkCGWMUjCgAN5m8QKOA  
E  
lmlg/0QLtxjhC1QiAZzgvirrGEogBY5BHXAwBXiBFwZClubNBvtIERCJHCl  
tuoNtQjiGEhgKyRgFE4gCoZFJJoFixRBlixlB2JgBWoBBUQiDMyhG4ZhAsCh  
jlTgCjTClSyBAX8CD86EByjgAqliASRAKzBAFmlgflQAYlxBl+aqAGrBB3wg  
/mbgCDChFxpAMBgkYTHHnpBGyagA+zhEWdgBsgArfiQC2gAD/CADIQBwJzO  
AkwpGErpAygSGPbBCFRxMwTDMFxmIqmAkDBwWLRFRUDNAiAnNLOFwLhMUgD  
8OzGdcQpxKammL6JO+guN/5joHoD73qsnDrBmz7s8rZjyP9go5yw0Q8ar/LC  
SRndCRIjb/SqAz/6SXVUDHGUbD3egHJOrz5cg/P8CT8yJED0yTri5syq42ki  
gRMAAEMCJ/TC7Mve8Z6o45tCzA+EIAFWQAS4IAQeARH+ABEQoQ0OgZEQoRJu  
ahiKAewqoSdloSZEQATuBRqO5yb4IBzKoQg4yglNIAyooKsK4AlkghukZQfa  
hA9WYBDCaxDQgAZOUK64Ag3QIP+0SryigAJYgAIGgQbScLmgQQQeMJAEyRYy  
BgVglApiMgowQlaoYH7ExSC2ShHkIB92gAYwkQx8wF+iwAqeyORgQAI58N0k  
iwoAC2EMYJPgAQPuYSJiiAS4QgLVpAr2Q2L6i0ZaosElshWDhMP9QoD9M2w  
RmgrmgEDDG4DTuAWYUAYqlvV0oUEFqAW8OACdtAV1AEe4OGkPK4WSvMgZoUK  
4CEM3KUBG7AD5sUSaUBaomABuiEGFEKvSMDITmABaMAHHSFHtGAGKBEWYKEX  
QgA5RcAeECEeDmAV+CVfVoABREAPJkANJK2SbkAFVCAYVEDqxvOWSikwhmDq  
EGMwYPhpvA4QaqnphqAMBgMUHuMaHKwWOywyuqMTLkxolG8YVWQYXWOZ3K7y  
ylETnJHunoPFwsM2wAOcfukxykloYsM0dmM0VIQ5uGMecy8dhQNwGEce38zJ  
9oMcAYDv/6bsnww0PJjXRHhDQADkHjPDxDBEH1+jHzHkyznoMJjHpWjNLAs  
Q70J+IppjDRjyB4pAC9qgLSKyDRigFNpgGXCnFIYBpLakCOavqwyADBhgCwyg  
HO4hHA6BD8jAHsigCKKhABbyByTgCWINBXggS2LnA23iJhagAlzBFgSpJ2Mg  
Az5QG7TBDSpiB5zAB0ghDHDhC4YyBcNrBcgATipwuUahq1CgWbjUGFhFH56l  
WmoLVspsyBdZgFSRxBbilEdRhA1yh1xJOLoUIGa7qJO6SG8yhEUqACjZAVzag  
AHagNr9gBUtAHWwosnoIA1JAJBTBCvxNli4mDGSFBQyrHaiKA/+tgCKowA1i

AB5clQzcQAotQlly5BH0IAywSh2SoQTgARy4lWa+sAmPtQnhoRtQwABCEw/0  
QOYgZgKiYgdcwV8lkAJWJR9ggApqogjmYLi0IP58oBnkYQ16wR7A4BDsoS3y  
4A/4wAdmgDhrIQH0AK3MABxuZAJyIRfC02RBYRdAYRbVMxYDjDHas+vosz6N  
Zi+eDsDkky9QaQjisy8Uoz/JifACVJ0yqjg6YWhRLDhOzDcCTzwGSvGW9poM  
zzqK7PBUJDLc7ppyAz8YDMVuQ5tULPQ4T0RjXmPONEXB9p72aSDR6UC0THW+  
CUAO5D1ql6Be9GnMDjIWT8UABM0yBAD/IANwlylDjcDG7KacjoABPi0cqFRk  
IM8ORGAN1MAO2qAS1EBGKoEjuUALygHVzC0KuOIQwkEkgSBS4+8mVsAMuOFI  
iqSm6LSrNIUeOuAHSEEEsGHaToACFgAGvGEBChAI4gcGUKIChxcups3kzg07  
k9cMJoAHqGAzYSANs/UCvrAEIDIKMiGqJNDfSmh+EovR6jADGqFZtqoEjAG0  
lhW0boUg9tlbZAEeSkAm8EABc/XeKstf5ooEXAEHI2LfNsAjZmXfBOJVtuci  
lgJXhgVUEYIKzMFfYoAGBigruKUbnlGf8sXj9KAARugoYqAbNmkCvsoMZLK0  
1EEW9MgV9KCD//EAqWigAmcATXS32HBBBbkyA7yKCyxXu35SHuAlGvhgFcBA  
lv+ALCahZMan44JtBv7oEWpBC2jhU8JTZVWVWpt/zZtvz6crA6bDY6/aCPpsO  
i7HYZtsTaF7pOaKREMzJF3DMMRiD7H7MmoBP8EysOYpJOf7WaWODI/AONdYp  
nVwDPMRjzrARMqjxbZ4JPWwDOLRjBEXvnuppRE/UbFG0bQFkRd22cLRM9cpx  
QADqa/GmoRgs8fDGxP6WPqapyzhvN+TOIKPjxorjjDvhEMIECBABiNtC+Zxz  
GtogBCYSFcBhS4YrBCYBCA4h/AK1V+dF1H6A1NbgEOREBMhABAzgb/9+gEt+  
gLhmlJpDUFoWYHuulAqypxkE6yKlrQD6dAG0wo2ODY7QwAkUsHdvEi7SLQG0  
oOSecBT0IAVOoAQgAgYK+ASaASrwuCoICIJwQd+gAckYCuS8rRkyH/3L7JK  
S4YoQB3UoRF2wa18oORwtXhQjRcuOgZwt7K0tX9pC4hqy7Aga1gwbasc67GA  
yCCqEIhI4AR6UyqeQrwCdgOcqA2QwQcc5gsYQS+Lbbl4gqPMQA/M4RZuAdMY  
lnzAgQzTSk8XoPoqUJDy71UESUvAAQ/UgNEq5gqWiwE6ABMwYRNCoBS4YF99  
YA6O4AjW4KtuWGFmgAuK7gjjgQ44QK/hAlv//+EfauAfvtila4Cw4+CLawCM  
KyPAvjilQ/FmgQbtrFof8wPIEMXDcMXD8PA0q6cfFGWMmw66A41IMPLeuA0  
PuMziAM69IY0yim5jqk7JGOWzkiATCM2MinCpUObOk/JFIIE+6mRUe+R0zE/  
+E4TqCFB+C5u/6NyMJlGa1s3okaZLJtBQ8PEJHQeFSdBQO9AvGw75o4QbMxl  
vQkqliqD4fKQXUCEif+ERwGAS2kC922ILfsANSgFJQgATJkEIGMCtSOEJ5rV7  
CuAHbmoF6CxSRUB2DUCaDWANtCBiRIAbKCCs5soWtlKorMRbKolCshINYmAU  
TC4GFHCuoNfi3CjZ/x5GAhgADSSmAt/kBIR8SooNBmJFkOTh/q6gCtVBDhfg  
edpqqxiuilkgpEZbVIGaFIG7VsriyBJ4lxS9gAaZXXKyAF/4yhULihfwX3FZI  
IFiABXBwWCmaAsxXyAWiCC8thjBAIRQyKipQD1wBA2xhFBKGA/CVU75glajA  
5KZCD0TAJhgAHnrTzXGh44ZrGEoBDNIqsWLgB6jajQhOfqRtB2rB07hzBdhv  
riowBnhgBbpTSY7AfJzgF+zgrWvhNqW5ozJWYubIBgRBEIChHvrrarwP7sAm7  
sWk9sb2YsQPMsW+xMZLmsscuECR0sw2jnllm7KTxlTvjtkW78l6sBxgsw/++  
A5x6l7fplm6uvZyalzKuVkkfNpxMw7Ltrh4j+R75iT3QscpOpPeathCcgXK2  
u7ZltAeaO26BNLqpQ5kkVDRg4zx4ozRwdDW6bHI0wbsFvnJS+ZVpl7y7iQHU  
AHIXKRymoRLaoAgqARPsIL2E+ADKdAEqARWE+KyP4CVEYAu2gBvgweSy8wjs  
QBvWR86hla1GMirC4YvASA3YKgywUtr0yNi2cgM2dcSNd66uQMQ3XChhgBQK  
ll7ivE0wyAfMoCtgYQX8SiNU0I5sQRbKAQA+QAJsoVC93NgY4CqJrYSsXBZO  
4Nr0TQmxZ8ktq6LJV1pQwCFO4Bg2gBfU4QTCYKv/EKI1D2LI640gjKEAKHpY  
n9Vc+pKzrooENINYL6IBOVA88CDVMCDZOIpeulcC/PUoXGEq6mwG7srNi+0E  
UACMJi5iWPgKHFj+qPoHooAUBqEnF2AnSB3kpiXmt1APJaAW1OARjiAEEhFN  
0WsVjoAq3lfPI6vjaqEI6BQF7tUBNADWZf2w/xqMD7sMasBmGdvpWraKx9ib  
lIBnlSAQRbuWxK4TYCkQCAHhbQycNKOV9Tg2LJs9jCCPK+/zohs1emxv9oY4  
AIJQJ4GEGCGxp5MelkWIEjGTxkyVixDQKcWQxwomARgAvXvQAQADkR5AhQ3o8  
yRHARwl9Po4EAFNjSJAww/3u8KKSpuMuWMjX2wFmo0lueMo0QSCNMY9J9Sgkl  
E8Ypac0ePVUy3amT5b4emnoYNVIwBEECKxKsWAPeWl9aNGpxE1EESKU5qFBN  
OhCiDSowB9q0KTLh0ZEQBw7MASLi0Joj9bYE1Gg1g9oIhIkWFDgCS5jTyKr

qcVggQQaEnZQcIXhBAUKJ3bA2IGmdAEKMMI0s4UbAwYeBQahiXFhEloFPETv  
GLQgAYwC97ShKSchwAUYGlyVsIKBNfDXq0tgsIUGDYUoKUhgKFGCAGsoJRaV  
MIZhw/nUVLLrVpciRaMTYVR7T5FMMiLSUF9++W2wQT4IYrBICmyksMMoo+yg  
jv86zezAiCwnyJIMCckseMIJMdjiygXmulJCihfEcAUeOzTTzBWjLEBjAhJY  
VosQKJSWYmg0zODDAAtMpmIAaw4DzyAQDLBAeGgus4AMNZJhBAw2DgQEGLD+g  
wAADO1yAAQliwkDbBW4UqQYZB/C1yhyYhHDEDNCsUA4sYMywwAmDTMAnDzGg  
gMwd8VgCRzYcaPBPDYmWwWgNjtbAaBxlXoFoGRYwimkZjsZhQaeWjBEqEMo  
QaqooQKihB8GPWSQQQq5KtNFaXBVCFMORRTIQxEZIFRRfkQCkay9ruQQRQRk  
IEYWTjivbE9GGdvQUUbtRNRGVK0Uk0c2YUtTTFURBVP/uCXJ1CtRO71AkkzU  
srTStVQBkNRTTuWkSb0vIMVJTPVq4pFRJBWzT1A9MLQQVdE21ANTDPWwgggi  
MFCAAdEYwIMEDBJAjRpqTKCFmyHggEgmxYAyTBAFFGEHW38gRcYlayBMh9H  
rMIHAXIYsMIKDKyAwgUX5INBFD5AM4W0QzS1hfqhPGFGzDAEINrg6wwiAS/  
hbhDbiTgcoEECwzis2he7/gFCpbtlM8osf2wAg07wEddCixk1/UTT8Pg3Q58  
jHLBCQCW0AgL6DViBQvy4XICFeqQEMYFq2HgSgkGltildxuwcwxbLBnYID5  
KLiBmLZsoF+EZFCoj3UKUjC/yIbtIPgBjHgEkMBrvxZQBjAuQLDCT7AgNsO  
pY2SQAe81JIAHhjqAAMPKCAvRAc+2LhDmDyAg8cww4BRC41o5GzWDyLM0MEh  
YMQTgj1H0GBG99PVtwgGVBRgS9coaDyBHYiEgEoR4cxxiHL8AA3ICMEjCd  
BURvAjvYQS1YEQ86jEEQdzBUC1ogiUdZ4FEatJSmPHipRm3KU5zqVKhApYQh  
AKJTjBIVqrLgKoXI0AiBeBUhfNGJixghGAqRyK78kENXcelrEfEDRPwQFaJk  
IQ1DTEOyOEERpDglluxqiUKiSACCGUVgVDFKtQzGEGJoy1vplsmzNikTbokr  
XWjsyf+2wFgtQqTBjy1RCU+WBRJh1Isa1KiXRaJiBGHsQxPUqNVMfBKUoDCE  
KNNKWMKK0RIY0IlgBP+DNFnCmhh8woBZc4MlcSIGElxyBC3bgCw4OMAwUIEMN  
QPhBETChBTuEIASrOaQa5qBJPTHhBXrowAo6kIAfkOJ7TypLAX4ggRX8oBsw  
IEUBdreDGHxtBa4BnjyiSSYKkMAYMCiNPGQUNXhcYAVoIAXVFrCDL1gNDXyo  
kctKIMkCYAAGUaDalyhwAdXZonqCQ5AVFrGlf2lgBbxYHAlaEwYKIEBMG0AP  
esIUuhRYIT9WmOiASEe6B6mjHQeiHQvCQIUoyMM5GFDHMTD/kA8DDYgECw0D  
4IR3tyvEoBa1ml4xSCCL+1CBCiKQgBO6QQV4xABJN5gBH56JAh4kwAfPe54a  
uEGKWjwiSTPQAhl8OafoHCIBfOCDCkREgwQcIRywgMUMeEAdEmwgCiSgAAbM  
YY4U4WECT1iBy1CxCnusAQyHIAUr7KEFWFzhBzHQg2HVIAQzCOEGyKDPBDB  
Dne0oAaTrUGnJNUozGLWU40qgypK+EFLeWoloh0CqEBIWkCMSIleNAPDCBGI  
ggRitoHoRCCCcQ1f+EG3RSSEYmOkVU5lhZ4EQWejVHYRghWUuE4UWSApaL  
FAOSXiEEWixArS3ypLXVGpe3qpUv/2dFhSQ1EYINVEJemIRrKDKBVhYtkqyf  
JJlrcYvXsvaliTdo4o8RMQJOCskUeLGkEHxUZE8lQQAE78RgVMkAD3iTHB9Q  
cgSiMMAT2CaElqjBC2uAyxqmsYzCHAAcPwACxxYTDIdyAZZzmMQMGAEKefxA  
kwtAQZQqdpmv9SY5DXvCjia0A1fY8wvhcdoJvvC26kENOBUBAzkkYHXOG4B  
ozADORdAitrBYBTaoBEpnKA29n3BZ9m8gOBSc56Higmi8SkBFFKgdT0Y4wll  
YIFE2YCeFJQgdhk1kOQUkTEDTc48upknDNCgDQmooxEPWoQiVBq6+CxCcPV7  
GnHwuQMUuP/CFSGCxlcoY4duEECPtNDAVAADjW4ky006EARGGCZDsXgAleo  
xTDUoIUZ/Ig0EriCD8zQgQ7cQAs0oBEKRCAEMtyADwYYRbGjWc3nilYBKDDA  
AhjQgVn+QjCP2FgGzKCNGSCHAqPRwyNmkIBaoGGTN5hALW5Ah2JQAg6Pmixn  
NSgqC4BCBZKyQAUqsEFFVSpTmQrhaVE4W0D827ShqkDDh+DwCpAqhaNSQiAs  
7ofazhYhs81Crm74kFx5PAvXgOFyH5lGsbgKurpqJMI0wpBivKohDnFVspaL  
4DmmUSNOPC5FhPFzihhFWN39bho74i0ZNMsjOieArbyYSJ0k8gX/XxmiTWkm  
k+UqVyEtqZfBCoLd94JxuUWRCdh3WIAMkEI0NkpAB5ANBEpqUgh64EIRMnyE  
InADEYV5xDBKUQoudAAWhzDAxjCBCTscQWcFYMD4MFOA5CBzODRKTgjStlln  
MEBCF9jBCUjQeRgMQjVQuwApnrYiN4SBFBj4GhqW00Df0AAWymyeE6Rptcib  
YQE/MEACaACcL1zhAmEIQ+Vct4FGYIBpjODPBqywUBKwoXK6mdt1GG0FPOt5  
zwNyUKAhnY8GDc77YZKzLZoRnh1c50GPvugikhEG82zAGPLhTwMXMM8VPRge



8DBHDIpPAd3gBnqQbjBgNmwhAdpAA3zQ/wFx0gFqYAa6NgN6QFNcgAfo5gNu  
0EAXsFQdQAMTAAs24gSswHsmRgMMMCWW4QbTowfL9gPIsQM68wPZ9gtt8Aul  
MAdYmKArYAZ8ICQ3km5FMAO1kDNvVwsYswm5oAJesAQaIAmSUFmQUgNQAckA  
twvBUAyWcCmdckF78A9eKIUEF1pLYFqotXCdUgFVeHAAB3Gj0oYVV3EXZ3G5  
MlvXAHK4gkN+YIc0d3LJohHWISzJZQQ45AvTIkN3tA+vokM9pHQH8xWO+BWR  
iBSS6BBkXxXdfSVlUhROJecGoXMGE0gDNI86cUeBNInK1RKFUBEDwy77IGBg  
xloHoxFepHMEYf9dxRAMO0AKnRExNBIIZCCEhUcxtSACalAEIsAFgVEYiAI  
pRACIQAEQAAG5eB4R6AFv4AIM3BVP3AIM4AnBSA0P7AAerACD9Y8F9AIZkNJ  
EiABj5MaJPAaYdl30wFtT0MBBTajPKA2OyAjV0AjPxAINCBJo8COs3ECPTga  
KwANpXEFV7AaYbBoBmIFFBAGtxADMEAFvKa4B7Vo/aQeEiUHjwZ9KeA6e9Zn  
+fFnGPVQoLYBvGAFoWMeuHEft4EBFuUgflYgsrBmCEIFMfAFwDGPO2BYenAB  
0qEiFFBYTkCAK5liMSABPKAGrcYnE5CMEyAEUEJTPtABQuA802ELJzD/HR04  
JQsQA6OWANxgAB1gBIHZPWYRAHQJTIImAQspASKQbYiHF3sRAh2wHEdAeztg  
PCvwGRNgFh0AGjSIBmAgKHTgBZQgCXsAmRIEWZKgARdUA0uwBLnQA5bAQXug  
AXvwmHsgcGEoQpBycCaEhgC3hm3oKSkUcW+YQhMXCL4QCKBAWxlxmxCxh8rV  
XMoiDFbEXDV3cTU0Q+wSLVu3KjP0iJu4XKboEBahLBfBLNOpXCkHdGhERMki  
R9J5RbdSEDBEEMpZEUGBDVG3XTR3XNFVDDehEVtBisUgDLNFAF2xYAlmnwkm  
dCkXFh9wi8UQBcchNGiwA2wjAlowAauwClxw/wRdlgRCYIxCoAWYIGKFUQmB  
8QghwHeooBgh0AtcYABpOQFHMAed95MJAGsMUCKtcQEPFhpqkAAisAlxMDvl  
N3/ekR3SoQc0wDwn0Aw24jWDsAMZsAM04CQL4IE5UwBmQZRU8HmH0E7BFpWX  
4TPweAEFomerUSboUSGNEDjy4VAp4AhswAakl1GOBjqk85lq5WckwKTFRwL4  
AVCwAzS2oBsHsgECQgL58CF3SqYkiR4UQAVQ4wbGsBqntiM7ogdJpQe8UTEN  
1DjEdwFRIElmlwTK8xmfcZU4kgAJhR4KAjStwQPcEB2uEKgLUAsToFjclAQ0  
MBk5QwpC4I3rQwa61v9qM4AIYB4doAJv3ALDLAMOHAIGI5D9hqCTBruiYE  
xTgBwxAP7OAFGgCt0CoJ6aAB1HpBqkAJKIAMqtACkNmtkfmYX/gPk6Upj1Ku  
k1KaZRAMdVAHKIABoLAL/kZb7/oBwfABoOBvD2cqtPkFvgAKEPeupEJblhcR  
wgBDndAJvpAFXRQIQNQJSgAIGkdzH3BgMURzZ+dFznlsFrGdTKr2ldhcOQRc  
q+JDxSlrPiR0wdUqqilRMvQBScV1tPIT23UrOZRbfqAEC0sVAGOeBECbWVAM  
hGCvCEYA/Gm0H4CwglC0/FkQH8CfRhAFUbcL8EQj5TMHKOmJYGCVCmQADgr/  
BGUwCjb4B6f0C8NQCcPAjHgRdtGgBY3RAR+qBZMwAflEepa3AFhaAHlbyyhQ  
BG+7BdSBC/GDC/JXfihAgShgkLbAj4wla0HZkVKBmuApFEiAaghDSRwClfQ  
AWQgY+gGjtQBPJ5HOIBQfA00Cos2OHV2UCylZ2zQBGzQDskAUP8UOhPFBrzw  
fSolP2BCqnvGII/WDgCIIMcglLFLvHf6aB1CvBeVGqiBT24Qlo2zt4Y7PTzg  
A0TJA18SNQh1AW3FGilieBqDB7UQJbWQlgmABCegG6+zAYhDBTxwAXjAA3QT  
gz6gBtFLDc7BB9qgDYeQI7FqJ4ewAhLAB2QABoAx/wE5iAhugAa/Gg1UKwEe  
OAFq4I0ULGvBpgYdkCR3wA5wAK1TEK3UWpk1EAe7YAmg0AJOCJkrHJor/A//  
cK6YwkGQoin1kAvl6a5DUEL/9m8Uu0MAt3Cv+Yag4Aui4nAQBwigELG3mSy2  
pQQ4JLSdgCqkAghLbF0KEQhPSwgf4HEZCxbWFS2tpZ8ppyqB6leR+MX6ybJD  
JxFhTBFM15u34ly+hbAQAcYJBnb3CXNe0UMP4Qt/PHEXsbPyFRT7cEMNC1sQ  
x7ROG1tSnLQD0bROWwFOCWMSQAIsMBvp6GptMALzsAZ8ogU3sAaZywDcAATg  
UAltgAg4wDjNowchwDJ/sP8Mk8AFkwAGrCABajAHWuAD77QA5FM8F9AltKAB  
zjMMKCMbtA5Yel6eRofpKMOQfUDt+cKHUIgYWAOT5msOfoayIQGvsEKE1Aa  
MHAfwoQDTrADUcAkriFSA6VnDVUCvEAF5qAHPuADjuNWG7AIDzlgJkmSVqAI  
EyXQj9anYkpRB6IO/MEI1zE5uSsgAKKMOHmn+ZEMssAIPXkCkroc0mEOYQAP  
PKAHypMxlkAlZBKgJSALVEACyVE78ODR8BAaZjMD3UaA1BYDNECUrpACHJUC  
CulK8DAKeTu/GLAAyLZhR6AHO5AAO0CWZcEHRcAFjwAGveAwToICX6AHs9ZJ  
IYD/jWCwDPkgD3wwCdOAB+DACmaACe/GCr4kawpQPHgBR5cmdE6BekgmmVQ  
D13ohJRZmS0MrmBlw41imWNID9QgDsGwC7sQByVsAaqqCvq2xaAQxEEMsDxc

2ZXNw6q1xLWIBAgxcRVQxaGtcLY5sLSfLFFCNcAc1+csei5K86VQ0LHsULH  
XdFIFLwpR2TXEJ7oh84VRRVxEBGBtDKhRbv9xaltXQaxW39cxKTSCdC1EHUQ  
MDI3cRMHcTm7xU7btAiLsNmtcBWgCg4HA4vAUvPEA09wYaJkB3Ngl620BT/A  
B42xGKUsBCsDMnnxCHv3C38wS2CACetT1FygBTH9AwWw/7k0IALAuKLPcwrK  
YAc/EAV7Frz5gFPxoQj5ADin0Q2bRgUUbqVQgHjeL80UhoSoAcSMgiDILmX  
8aLegxnoILdksmfXkWcNhU8M4DyAYwWO8LpiOIht4TqugwE+3n4o2X0VxQYW  
5R7wfNAloqYUHSACsqclolZqygauoAcxwKgmHgNU4AqNUyJyNQPjS5b/Jx8k  
wIG1k70+U8wpggIOqjxciQLQMAMSMNTqgCAU3jeu4CeOMwgiUAuidAQLoHaR  
xyQJwE4NuAqwEAKgzAekEGOkIgCd1OATQANjy3enBAS2egQigAlrUAszwAVC  
YKx28Fh3gAyGAq3pUNciXK3Umv8Orj5ZnjfKqnrXvjCL1xZifKFmqICdYAN  
KmAJu6ACKgAKi31Zu5Bb7zpbpvWu/4aG1zBb72qbtnkNoCDZQwAK18BDdhgl  
lq3tEYFbJXdxKhTaEBSlqLJxYCwQAzFDBaEqsAXJrLlr3wl2rRjBqiJDF/FD  
ipicCOZcu2IUvgVEWTwQH7ATsqVxpIKztOWvpILtspkFXLxDwRAM2W4qqBUq  
scWfLCEQog3eukpUWAFGA4D6PgEUpsAV9VhwbYCB0AYi6EFq1Bh3PBJ2HgA  
f3AkV9DVirfLZuB4EwAGP7AFBVAWVklGRzBVEvA8WQ0LWoBICSIHL1I+KGUe  
iwCoxqf/TTdVUiXwBNALPAUeNaShDWbgJB6oa8AoSRLgBhBGi0N9HRUIHw3F  
aUI10IzKC2Kq9w0CUM1MAk0gB0IOknov+EiO5AdNUTZJpg8NIB/y0KFjzR7C  
+CkQBt3AZM4jATEAluawGj/NA/CABz5gvhLQDfFHBbgwgAsgqezoeT4zHPej  
MYj1FtowPTAANLqRD/WkHyhyAU8wJ8HWAXyAuLwIA9DATm3Talqg/P2tkGsg  
ASeAArJ2VZvQAYiQB2OLAzjQBkmiBdS4VO6mFhE4A42OB4IwBtkwBekPwiDM  
6uyvASDshDXw/tG66unwhOL6hY7C649ZAwBBKvedOvRUFcu4/yuOhThxdI0j  
VMFCBYkTg32ooGpioEAVKYIKBAoUxQqgAS7ZiRLR5JDQF2D+TLQEIpDAFUA  
BEiJko8cCQUi1KmTH0IQCWUhfDRooE5AIRIVCjQL0g9AAwES2hTo0aQ/s6gk  
pNLIWAIEmAbyE2hs2qhMP3woS6Dq26Y77QbyhVcJqJ1DIHBM5EiTwS0C1s4  
PMQCoLHbkn7oIHmXysqUo2QSkCkDKQMFnmT4QUaEiBUdaEiQgCLBiiNaEB2J  
tqWWEHAhDhyoBG6YnTmo5kyqVGSNiA4djjBYUJoGjSNctGAKoYYBNxE0es0Y  
dcGWrXwlfmEATwIDLlwwTjCC10gdeP9ctjCoU4eCRi0GDGBcuLJiBQ1tEtAs  
SGCGGY4oYgEJnHBigQJgSIAPFGAqrwQrrNigwhlwCAMEGDBoJBNERGCjHTbY  
kMOKRUzclJ8NMBjRckU2SAFEENmYkMYWU8Axx0VwhDEFNnBMJscUghyyQHl2  
SGYDEnJMUh1X4EFBDz1qQeGC+8l4gYoTlnhSNQZ4qFI7Ek7YAYUrYDBwBxhi  
uCAMMGsZhrZHauGGDDJm8OECUoyxxUoKjCmhEVd4YICCFRlojo8VGKglgS8X  
GEQ/NBrsYAYujoAODDPIOGKFDdC0dIVNjkdIlgGVwOACHEB4pZZNe1BBCDTw6  
YAAFH3wgg7f/R5ARZlwpptDg13R+/VWDPfbQIB0NNGgh2WWVhVZZSf6RplU9  
aigijhpqaGHbXejBjlyCCLJg2xoaosiCJRqi7INgJNIIIMVXKKAoxiiijikWq  
bjLso71IAhgannQCZqYK9AoEoECXaOiqQITpBCqmfkjLKYgp7iSonDjiKK+t  
Mh4ri2CyuEYtlwgpwOd/CCKkIXvljiQDwh5a2ZCglFZCZ3+WsmXvZQYImhf  
/MjCLsUqCDroiShTzIJOxiKkmA9yAoSyqiuZolwnCsigABrlwAQMWFYwIDkG  
EiiAIAYiYIECV3445A9MhhOBvjIKCaGUiRjBZAJM7IBuEzDmOISM/w4OTaA5  
ETglMIQQLO1gATQG2SGKkpZDYEWmJmGghA3UKSGFEsRTskLwwjCnPieSSMBK  
W0g7HJoVvpDADAHNUJOHBVAoIIYZyIDBFtI3kLCE0EtgoZFFoICiiRHZUAR6  
R6yAYsITrcBRkRRRg5D7HCWPkMYV2dAxffCHPx9GKJHsUvwletsfghBNcoQAF  
cFqHwbwFwiiAAirC2MEFLhADCRDQSiS4QAGo4AoBXmAHqalVLWqBBwmqQQ1F  
6IAIhFALHhQAQAI4EAwG8R8U2GJBu+MBD2DAAB/oQTUJ2OB8RqOcl8zAb7DA  
xAHIOL/9TOAHMwjBIW7QhjYgAgelCAEiHv+xCUzMwA5H6AAX8GAA+QhICxOY  
wA2AwQE4clADywoWGJdFrGEpK4xm3FYL1PiPbVUAIXVwAUFUUIdwYcMF4SpG  
C6ZVrW5xS419PFccymAubG0rWyogBCjYla2I1YsmBfNlUVa1GHdVxWdJ8xfB  
jrlSjs2FEEThiE64EsqScYxmMzMCICzCMYVxZCwc0UonqilUne1EJzYZGEly  
orOn9aAHxSAEVowwNZEUUYQ0MZjRkhY0pC0NmSRRQTBAGcgPYK0MV2smYn7A



gAws4Ai9Clc9ZrCAJ/CABgIIUAGi0AwWIIAC20QFIrTQgS0IlgQQZcqMQyUDGJ  
YZRiAiHAXCZY5bj/Q0CDC6ahwSGAcIgbDQAI/8SiGVCziW9EQRszif8zTIAC  
Y6jjc+mD0SlqIJ8qMMc3eDBD7iBBz0UcAc0MIMZaPCDFTCCQTN0IAokAEKv  
TUALalqRkjcQluKhKB81+IGIUqAlKziihNy6oxGpL3zfY9HPfrRUq/ql/TI  
KKkkDRJVv4qBL3QDBuXkhg/ccAEMwKAAKAhgm05wnwcSMAqZmyv94OEKBu6O  
Aasrgg9qMRohrKEDG1QDCIAwCioVigKk2CkadmALGKSwAAXAAANSoztGqcEH  
M6CBGhYlggSY4QaYOMIvEDEBGhSgFmQAA00REY5DLGAYy7gNIg4wh2Gs/wIM  
YDjClfgQAKbhoQhFmIFhJ1ANWrCjFRFoxRS+2AIOEKtYxBojsJaFmDhYolxq  
XMJA6lgH8YoLG3XloyTScaw9/JG9evRjH9IlyDjQoxiKbli2DqOKj4CCJkdj  
pgU0Eq+SSHMKSGsaSWD5E1Z28iw5AQXBvolzklhEzZJTtywdSGcyNAQIkwVAJ  
LJuisoHtLcc2YWZNUFyBpxWjGAS4iCp5t+QPHMiy/TLf4uJYJdU4C3GLCbW  
AGETSSKmAghYAR/4E15wMOAHI+XMAMbACvoxYBvEclUISvEaNbACCAwAwhyK  
Mlc5VCJOXCgCF0lwgWkAgQwTgOJnj7AGKO5nBv8dIAMXJqCGuvmgACwQKRqO  
EiYoUAA8srjrBiiUjCutiKk4loGGCnCBWrjBB9yYgQjW8GZWqlkKoHOFoSLA  
v7Mp9gJCcl4TjEECEICBCuK5AOHg1A7vnMgR0XsejeTQBF4/j6o4ahH2gC2H  
H43Ue8YGdoyel4zx0chHuQbRBo6BI3WQgAcBVAc8uKGHC0SBBxSAwRWuEAPF  
7gDcAozBDjDAJcnxIQfk1INLL6DTWughAYRaAXKFwEI1HGGDeBDBFi47winv  
IAZujUJIUfCDJ8BgB1yYDUKHSQIR8OFOITjCP29jhyLAtAPhsA0qVLoMRCCi  
F8/phR0c57he+KBWCdD/gw/UMIM5HAEMyLhBPOgwhghwQl1etG7QsduCJVii  
ApYYiSrUCAdL0IOccxFLs5L3joUlo/OOpYk2pv1P/6RW1/3Y9F3oQptaWtb  
lakJgu1FEY1YII4T8S9J7GWvIbCyKhy5MNSodpMIO+wnFQ4IIOZCl6vwPScV  
YOVOmAI0quIMYHtH5mJsAoqZSa1mY3ILSIacsGXaSyQV2EXQSlyzImcN7YLH  
iCXo5Y0CpPQQcDPA1gZhACqqs35PEGACoBOCNgbhDUCoxBqOKyAy/16DqD4C  
EH5g2BlslQGs7cAaEkDaDvyA+VqRj7o3clEC3hUGF6LChsBTIVkcqUJBwsD/  
/1DQjQssQAjDoAEYtEF7c6ujEaO7wBe47ygeWKKDsNK+oCle8BiqGcGeqVI2  
GsEeGcEe55GqGzfkdkdeHGEf70FAHGkHEii/ExkflnG0YyCBYxBBdXAhEiIS  
CmCBDJigWriseeOBE4iBbmCTC5greAiDBdgdZu3/CGU1eEC3mk/+UCBGNAD  
C+ICcKCNf9qBHZAsyumfrtkBKVEsKSsABpiB6TusGVgd5ogiWJgAMggBMDiA  
Cai+2qkEVJmBFRC+ORA+WAIb59CCk7sOWLjCAFEDLNKC0aCS1LgDL/ACDmiF  
55qCCCDEX+EAQowAYLGW7EpEDkiH6il6OICDJYCDFv+QRDWKAZGSBGcBo03U  
AEmogfdKlzVCFq+LL24BRfpilzjolwIDGHkRsHrBGqYxGCPYBwJwvJE4MIOh  
CZ4AmKolhmd8CQ/TiVDCiZloib17vMdrvL07PIqgGhX4gB4ohELogYDRxUhC  
GongRolQjF1gCMTAlnoZMFUwullejHpRRws4x6wpg0Z4gii4LAOolpYgEPY  
mijomg5qPRGwDcd5BEyYAyAoAk1LsyLQgjnblG4QDuH7vQ4wABGQgHOyExGw  
PhFgANJgnRUAARIsnxP4AvOIAQq4K8sJnsxxtc75nBJQhWuAEm7jASSkgRtA  
mwKgrBRInvZgS9wAhpAgSf/ellDOJvW6QMjER3R8RyPwhHPwcCkAhHwkREc  
KZEErBFhy6od+bXtYZ/QAZHqASIWG6rQWR8V0cpjgA8qilFaQYEW4CsBQjVw  
aL0q6R/uk0EUyBlvAAeQAMaWIEUWssLQI4OKIJSYAAHyksYYKAYiKJawCJW  
KQUyCSBbqBzLARMl4p3+AQI82LdGmQAGMIAf8CwawLNK0QI7AAMt0A8n6IA/  
QAXQEgINWoM1uKlfmidN4wNYoEMyglULupMourTZmlA+ZAd2+CJCxIJQSERE  
JMqvGsRfCYXnJJYv0gA4EKNn0S5hSZYpGBagC5ZNHJZI2ZY9kAStay814hZj  
6ZZq/7mWr+s6QtqWhVi7OJgXellHhoBPfLmlgrGxnbSjZ0lagnEMjsCIXeol  
qrmKkTi8E8MJXkIaWxoLyZilZyww9CoGo+svktiFbKRHpmElsquHbJEISxDR  
dKSXcaSMD7WAD62HD6VPFATKzjCAnVoNBdHHrsE9GIAb1QIDRAAcx8kgIBCB  
YSiCN+QtWCnl9Q0HzielVgAbliD3xkNM/iSH0gONSwgDNiRuYoBN9BSh0u3  
BcAAV0g/8VMHKtgrV9ADt6qFliCDyZEAczsB8LgrcEMT1vmzvKwFCSCBTIIR  
CTHKITQelsQRXmiHqlxAawSf9HHKH0HUERGSCkG2BEwfFv9YEFdIB600kgIk  
yTIFzJ+Eh2xzAzeoBSICjs3CPSwZtR0wU3ilRg4DRysIW5oqVGdgEe4rPv4

gUKrLBFQgwniAjXQs/uwkiXEAAp4q3pEodZjADxYgR9gHQICgd2BOdYZjR8o  
yCOAheoTATvoBT7wgQmAoel4gjmYgN+iQzMoHDK4qBkwg7r5VS7wAcQahke4  
g+EcZlbgACwgAix4LuUcROV8zudEROnSgOrStmJJRKGLzoLFLuzalk9cFvM8  
z2UZz01sL/TsFvPsln/ARAvYBXC0z0ES2YXIFiIMx4III1fEGoBJMJoAiatl  
u4+ImUAlhgQ1mJuAxhITPHq4mZv/wNmbcEVpzAUVwllKAr23q4iFyC/KUNqG  
UAWyy1CRIFqGcM9Cckf6pJcP/YcyQEF5rMLP3CYeeAJXyJ8VMgAB8KAfiqI5  
sINV0IjP YAA+eE0hEIIxE440G9XXRC7ogLP62DTQalK3cqvpXAEp25ANoABw  
2x00yB8Dmcj/wEEUQIM+WYC85IbFWoE52AR7ullogEHw+AEXWgBDO4HLChMK  
CINuclUKOSoTSYEdIz4LmSv3wlCnTFTveV1MhZEJkSoDHBEogEr0CZ33KQFe  
KFMyyYUTYDXsYap8YDVFK4H/8QaRHCAn8csoidYFIMIB2gEGYqtQK4EhbCnW  
2akNopME//hWGDAGGLinBJAABiiARRkGAZmBs/KOtukcKpg3CSAtFAAT/0UB  
0nKUH/DfDsk0KuCBW5mgNMz21oCFI3DfDoAQA/Gdl5gEKDoCGhCBKhJNAbET  
CapV0YyVGdCCR5gAWMi5nQtEft3OCMACF0ZO5SREgZXhGi7EQvyi6mKWZkkW  
QmQWg8Wu6hSj79TEjK2B8aRY8CQka2mBf+DYqjWXhsDaDXVH05vF/4TGgLmK  
TgAYnIXGnejinLCZXJiao+MvknI7iXhQH3sX+WylbSE7dIGI/Bok7spQafpY  
j81QK84aQaoMrlXQwsCAhCsAgfPMznicbWiEtjlbxc0AiqM5VP9ABS3YAueb  
W01rjil4ghDYILOvPpxAhTDEyDkQgUNAXzV5IDT4gUiRLHOzAjUhyd0ZhAKQ  
hxU4hEMyhVHgS9lhQhJylW3gg0NwFVZggYTbHANoKRRwmxMgBVJggBj4AnOD  
h2PgHuu51KwqgTBwg2ZINwzGBeBdwAjcnvVJhuh5thZBZ0eV1PNhg0aAEV44  
BkbgUvVtJxNRBChwXhKQkEUOA3Bbm8salBTqIDCRshRyhRglgwGKgRMwB3go  
AR4IA8VSjVrvgUeYk31LADw4AVtoBi4oBTvwARz0ARG4IK+5AAoQD86hgihw  
EhhAgViRAA+6t5ezNw8Knu0AD96hWz3/glcLyDcyWwU7SLIVQGmv+ZpeWIXH  
AS0nMwBc8QFt0M0JoJNHmCcy8IHIAci7sAMtuAEwuIExoINs0Nck2FcsOM4X  
ruEYpmHkDFi0RkRd8ClDrq7qSgcskC7qDJZigVgdhIjr6sRrkQTt4sTqVKNl  
KU/6qlp6ldFZxPpGWtln8jBk9M8uDphjRAYf9bGZWWMBM7qbsFCy4y8BM0e3  
O8c31haNyND8EqR6aYjQkyZKWlh40a+sMSRHKpca+ld6SBeRpQCgBMoogN/L  
ogAriYJzyABTbr3C7RqaQrUJmIMt2A98EgECKYVH6AUCeU0RuJsjmO4JmAEg  
6AA+iD0rgVwJ/1AQ0jppCsgADHCDK0ggPXmCHwhvuJkAEfBcEoCBUWCFiWSA  
QUipBQCDXohTFuCcKCCFUviAhFsTK+ErLBkqFcEAHnkPCtgAR0i4K5AAediB  
ZviCDWiEEek1BXSRRViEfHjwpolq3vURXuOFb5YQ4DUe8QAdFjhKzyEBXHgP  
44lwNmiCdmC0RrMCDGAEDKECQ2PLchrJz1i/IXSFAkCdvXLJvco2tuw/xelG  
IcCiYSgAV3C13RGCOQubR1iVX9ACRQmeDaACXHCDKAgDWSiBARA3PVAQA2IS  
HmCdy63cuRo/BloBKpm0mOsArcaEVQgHA6ACDDAQM4CFmrsBWHgiBv8ASgqm  
gW8t5SfNuEshEITEw3/CTWSoBkEAdVBPgmyl60NExIBF9VSn4eXkgD8EuiKQ  
xCl4Ye2iLjCSzjFKh01EWO1CYg1I2GG5LmLxREeEWA2o2np4z8PgY8owWSre  
xrQjxspOu6V59skAGEsABGz/gJEQMJTtdIU4I2wxxzguDMUA9zioBwsQiWCw  
BPg0lz5ailHrLon4Onp/YkPC7T1Yr0JyYkno7QzYhq25rM8wVnmMbwY4FHpc  
DUcZjeMKrNdzeB4QgchEhlpnQ98TAIQ4zUmlzQ4wg5AugllcgVm+rMIUj/hh  
AQFq3DIhDcMpDjNYc8pyuEFYjYUYBc+kAT7/wIAUDJ4jc7gToIAYglcnGO4I  
REGwhNSTXw9j0O8bIAUUVL8DJDZie57pMRHs2RHeVfGsb+fQaYQUuD/Qqbb3  
IJ5G+J7Q2agJESpLbaoNylQgt4JMslUiN576Uebh/jaXfllqgYEMKVNZRYFP  
VYcUSOngngQcwMYA7hDkJ2KYVqIUBsQMxdxxwYC0JWKFBjgJ9HrUw5Z3WmTcc  
RBRgFYJm7Z9CMx5jiMsEGEmXloDPegQwCIFVGHkPQoEO8IGvaY4JMAP3rfMV  
QAPQMg7jgDNLaY7iGA7T4G5oGATJ/AJ4OCIkAAy6AEQsIHU4YAcX3IeBjeEI  
eE63rgdVWAIVqkSz/57h7T/EF67Of01O9Re6gW1Ohb0uMFrP8jTPJWik6sA  
+uQuXFAMgChTxgLBChWGGeyocCEggwUrElwY0aAqiKpUWbioql6NGnFqlKnR  
ogXHenElxmnRMU7IjwMrWLK0hGONPRpq1pCkQZJNDSo/juzY8V+LPuAnptuT  
IOe/PZIKwHiSlcOTAgWmUohS9QkDBGk6/Fgxw8wMGgx+GBAxjE+HtiLWFGAg

pMgvO38QTZpWRESbTSHsrDkygUEHswv4LPjxY9CKBRRlBGGCTggWMyjB2RGGw  
QEgCEXwSmHET5cKVQTDiLqAxQwIDCQssY6h8YQcMCq5sN6JwYcGOCyUwQP8u  
sWEDhuLFYYwaxSoDhka82LBpB326HCtsrDhapH1RCu3dF1nZnmL8BiqyGpX4  
jUG4uvQUNqS3kml4BitWhGM4cYIKFQolwkQh3CK/lcACBRjc1s0FFBRQqQw  
uPJENzHE4AoVF2AATwlowINBCmwco46l8lTRzRNCcCGEEDQl0YEPNNTCwBEz  
gDHMI+BlwAMKDDRWAAUHyIKAKwXsQAEPIfGwWwIJCDFDLWqIAJtxPCyQgAQS  
UFFZGChIUEQIIWhxBGK8oZBALR0cMSMNCTCAAhoLWMUHDXMW0cEMR7TVFpuK  
iZAALHwc8gNvl1GoBx6nAJMEMBzAQYkGEWARiqT/k0YwRQsXWnqpTRxAgUW  
nU5KaQSSfjqFBhxMYWkol7LaaqqVvppqprLGmqoGt+KqgVG3GtXCPzVYMIRQ  
Lbi0kIAWnBQRRgctdBCCDkEUUEWSCttRjZklK1GAoUkVA00eesRseHSpEoc  
cZhLkyQjEZWTTjvpOqxK4RZ1IAZJODuUTxnwUIBUT/Dwg1RTUZUBaigUINYM  
hf0AxA8icPEwmkWsscACKxRhxx2IHADGL4KhEgIYWgChxQzR/LAmDSul8MMh  
K3Sgh3CRsRFFbLFdEEUBPAixggEp04DGDldIYBkpBcw5pxM8nPBFDJXtUMAF  
Pt7W3o8FLGBOcSSkUIIv/++VKE95MFwhjxM2D5eClNZB5119m0g9gaLxD03  
eNyBJ195spSgDgb8gZ1eehukYAULxHkN33z6YUjFCTHo519x/rlyQRjbxECF  
1l/BgAEFTuhBYTdhFMcDD664os546alzgjndoMBNETO02OLKO66xxgQ21slD  
wCjQIAEKtOUHMAwLdu4ggzDAzIUaanRw2QXH7xCGBDDuiFIWDDLhR0TYKKF  
BD+ggHCZXBxRZwIJS4CGPDAMcj0NaXawRhFqkOXDngnMr80MM6BhEAyqEg3U  
glcbOEaQuvCCFziABSIQYVIQXBWrpSCbMAqG5/yVKQe+KlQhQpTmRoVq0o1  
Qv8RxxqClpKVrNKrk17xyil7AJYFVGLDoHhrXiw5V0YUYoGGNGQh07KWRByi  
CmxhCyMXQZdA6CUSb9FkCfP6lg3PFYclCOVXLZAET7joRS4eZSR7wKG8xrir  
o6BxZ1aZilVQcIEMRCEDLPBGFFhQRwYVwAA/I19buACG9B2BDMMQASm2UABu  
cAMlj/jSKn4xhzTNDgwz8MH/1tCBR9gJTyulQiaa8KESYlgCMHgaCnjAlwZg  
7TSj0AYFWFCAK0hvAWhAAw0cA4MF2GIQaJBAAUZxBYOF4QLPCPB6G5mYFEmCg  
mOHpmjEWcYKtkYAEjnDEdcYzHTY4lgUkwEU05QYeR9j/Z5kfgglveNGILHIO  
cBtQneC6Npx80G1u3YHPb+DBAwIUqARUKMGBfkQBN9RGIDCAx4FcUQtETuAG  
ZrCcKxC0pQLAgwq3OR4FhCCCFWnGskvywW7GUgQgkGF98IDfAq50TxSQRzb5  
lIEsSDDSC8ljAeWrBQoCCgPTwQAFI6yFHjYUgyLBYwdfVglyDCBAh6UB0+a  
nRl80L4d7KAZt6SIGbSghQ60iE12WtMKEpAmpCBBgZYAQ2amgDO6EEPagA  
MFRxQAHCcFRE4GA2GKWLSkVqVBwMxVwv5SkKQiqEnYoUYFtl2MOKsIWmMIU6  
XlirXcVQhr+y4kfWJRKO7PAk/0qklkGg5RALYltaP+xBT5gidJ+oAKA+AAo  
QKER0MIkI3GoRz1GYtufWEIVM5mtDUVCko5lsSNhXJdTdKUTM6JRV8rFoUql  
gsZeGcUqO7NYVfCZAQoYwxhRMlYjWJCJ2FDgBwwImAEllwQtTOAIQBDCBNRg  
AEPmkRttaAPHULEGLawBCG0JCxlo9wNLzGAWvTjCD3ZABQ+Z88AIGGUGyicC  
EbSpAKQwADTQAImmWMANpNgBBnYQwDIZ5QK7IMAgBrEDGkStSjvzT9jkQwWo  
PhOc+pBDdgiXAUdA0xFyGM+H2LalbbY0bnnDjn240zbnnBMG7WHB4OrTHuBg  
AD5cg/9neCRDOHVQqaYLIgEjfnMBibriC/wcJjxcAY8Y4AEc3BDBDG6wPole  
IAYlg8cFTnc8FDxpBgjLgPUksIK0FkAlulPDJMyghy9chkgl80EtqMuCY5Yg  
mj8Kg1THuyM3CDOtKAjDCIbQITJJwAcxOBAV9ECDIgxjBiXbi3sNWoQjmKws  
EtiBMWBgCxjlQ2GwWJNbOjCBCcyAYmuYQS9mQIY10CCsS5IAGXhaCyGoARlj  
aMUy5gpXuHqQAxzQRTYsxcEIRJBUI8JgqwgrrqVGdG4R5BSwFT4ipWt0qHaaK  
9054UpPI3hYjKJnXr2pQkdgiC7acbVZolWIR1clEEIQARUz/YJLbelzEILmd  
bUrGeNslqOIDKkgXUCjbgIWca15btMIldNUTXdVLub2yrcXr9VyX78FgR4NK  
An6AmkGgAE6k6MqPAgYwrHUF2vWDMBCKsJdpbMF0QqhEEdpwAESUrBfLwIQd  
uKliVXdgEmDYBBDCUXM0mCED75CFKy7DAhKYQ0d9KsCbLOPKrNiiOOrxXOf+  
RgUUDUDxrDFDhYgGvSsZ8npyccz5c6CJkQZP1aY2wbs4za2hQcDsuCmja9j  
ecen4DnlVEcJgNMeelpOKrwd2TykY/uFNkKmeg8FQzgxoaWlAXJIMEJOUSe  
dPKTKsMQQi1qIQEnuKH26rhjPSA/8oVoCAapHCDnLnhowt040rCA54ZVgCE



rlos5zAY3yC0IQER1LIA+5kcludmnL/9xxU7clNMybekmvMgAXqwDBq+Mocm  
0UC8ejhoLWBkuw6sQAHLwxXsAC8Nwq6ZARm4lw8wADg8Dxd0AB+Egz30Qi+Q  
gc11BQPQgA+oQe+VTwJE27S1AqRc27VhQTZoEKlwwAiKSgRoGxxoG7pJSriJ  
Sih00LIZigZMwarcCqcglqyYXHF5kUdUwC6oghjtAchZwi4QRLeARE38QxIU  
QDAQQmpdBGF1EGdpXGqpQEJohEUckcZRxEWA3BVaQkpIERLCwRjgHMSPQDBU  
gLI4BMAVv9uxcQuWFFHrEvJoZxPWJwMWdwRSdFzPVZyGUVudE4cGYxV/AzW  
vEaETUWbGEAGtMIX4MmrIQLlrMIjbcF6ccEjIEIIAIYzMGXHEAlzMAaPBgX  
OEx+HQIZfMZ7rYcC2VNcQAUFuB7yYc2skUJInAAMsMCjxV4JGAM/XQY/cU+j  
DUIdYUAAUnlAtwlffpMcisMCNTaPqRRpkpE0JDlh9PEc4pQAU0A0GwFMjYefb  
Xld8nCN0oEeltEcjLJ4jQIFuE/fuBNxnF449cF9FMeQbBoVtEfh9I3cDSTq  
mJnpPAnCPMGDGMrhIGclQnWmlmp7YiOFE2VmlklrIDpLABhzID/p0nA+mBN  
AMpUVciU8CzIM+FHPpwwBpjDEzzBj9zUkqDACvhAR6IA7/IAXHTV//BPp4IA  
0eGJW7RGAqwAH0hAW2gDDcSPD3AgZ8gUtKnBq2kBGdjDEbDZrn3FkrCZGnDD  
AujBHLRZNSCDIJgIMAADESTBtbUCHMBBX8UBHGQDtnkQubkgp/BVBM2VDA5K  
XqkQB5xKpfTgCr1KrZgKZAHIEqhAMdRBF9aEJFgAKARCGvbKEIBCfBgKsJxW  
HKILaKIAQ2TLaanAaHZhTJBmurTAEeUWG4LcFV2RRpxhUNgWxqVhC9Tht9RA  
a7ImKKgAPeQCPcgEFrXcFLUAt1icUBye/wXsCmDK0BSkA0+oRBkYhQAgyhR4  
gzfclHgJgXTd0lc+QTQ8AZuU1wKIQAeQwbHlv1hAiaEwCaggh0UQSVUwv2J  
QCmEDCKIIRD9zxEcwhPwgQi8jDzwSCMmCQ2U5woMAr/AyAJUBcJEAYP0hs3A  
zYAsQn7EQIGUAEwCQQI8TSM0QiZl2m+og380Ht1wh9fcBzINBz0ZmRXwgnzY  
x4fMB+HlgWRcE3SMB3cUDhuYE5aRgDpYARRAgRkQgnEBTfA3m+kzTfZhyNk  
ghVcwC8G03olh+AcioClilhcgcVwQFrpAQ/8SOGZQxg8JKZNVy3ggVfK1A7Y  
Qk9d1AYKT0eCn/8ZJMCLWMUKoAFUFMIIXAmbCJPnAld2wMeFuNGf/giXbFQC  
8AA38J4QdGSnJRuCHKI59MIcgaEm4Ik2fAbLwAwZmOcN0AApXAADPM8MJAAa  
TE3vzc6dwMIMiMB5woIPrACaOk8HbsgqaAEYtKoP4AEelCUwjEG1VRsHSBEH  
reBbQQZCnjBsFoQqyThAHEcGI2GClvKAPutsOJpYFndytSEJSfBweLoFyLQFB  
FIXJEUsFfMRKdOZAZIQIEEIVaktMqKYKmGYwqABvfVxM1ObHzeYSSJzl3RYc  
jAQcoMts0cS5sGZMWMJopkRQNKxswoEqhMRtEeeutlBxxZsMAYtRqIP/AGyD  
ALBABtDRzpTPD2TA0aBF+TyBAAdDkWYSFaszBHLRBOADBeoZAPFBdEZTCHNiB  
EDTMI1AdlvxCCOzFq84B0vwPNKDFwgRgvyzMDDAAKVCABnZA1FiMj3ROIkLG  
MWkHC+QHDGQCK+3MWLIRCjQBCxjDim5A4JSAIgzjiS4efCTeMDpejBbO3a4N  
dDTBNe2tlvAYdJCTc1jlekBBEziCl+3IkGCo3ViBHAXpklbthWypfzDZgfkH  
iQrOQIJZDCTAgvwIMpWAhTjOmVVO+fCqEGgfDNAAVvGPqF1A+XRALbiZD+jB  
SKKBzX1ZFKjfkqwaOqkHMhmOFVBBGEgPmT4B/5fKn5kkgAHEH5vkXE2yBQQQ  
wiDQABh8CSrCghmUgxnUAqdiFSz8yUlaQO9V3wrYAs/0Hhd4an+lySt2gFfg  
wQxwwfwmwCDMgBalzCNwQULdwa2UZTUA6xjU1QWh4AW9FQUNcKe44A5emw3+  
ValM66loQBw8SgUB5qywkKmUK709J7cqF674FnSNkW8JxbmwK0yUVhcuEQ+Z  
y8LmFr1aQm1d1sMJrMC2gA2vob6KEaPccFGwS22RxEakZkWY1hJgC0SkK7GY  
yxURi2Ju3A11BBCbkt1UQyBhK5sQ1UUGM1RwDZsg8FEQb9UxnhxxZK817CB  
hSgxAcaAwQFgQrCJwP9HYclyGADPhkDuBlwzEEp/AlqqMhYrYEE/MDs8MEK  
PAwfXOCOwlyS+gBKCUxtuMZsnEABUAbaBOoi5IMxxEbnbA9tLCQ85cN9zEfs  
pYA62Ng58hiMLp46hpM6rqPZ8sLetkMT6EM7xHIT7C3fuqg5eWgJolfXCAAY  
9kuZLEhxEA6T7uN9MBnnLfMJMM2XmfKKlnKgpMdtNEKARJkpF0d7x4jmFmd  
MSpPrY9M0eT0CFPOMUAtQFiVKDJN9UZICMkt+cAX/Ag0cSMY4sL0LIBTooCR  
xE7svAZUycNuCNWZdO8guEzFPMx9hcARqKil7Ag3VGU5LMCR1GkrpBcFONj/  
+woBNzCACBxBODAAWHXAg6nBDaWDA8iDHqBJLwBgi7SFD8ACGCDDDDwBHQAD  
HeiCtmHQAfvVYD0rXR6Wc45QqaAKCUWAT7yKCzWWUnBAGP2DytmEDOXKu9yK  
SEjCSpwWw0FER7zEB4B1biELsRSsSgAxSVDsEo3EWc9mvsLBqQAmB+TrEQ7s

xbHhwo5mMNCDCuQCX9OrDbdmatlrc4HEvBZDMIh1R1wsct2Kr1S0AVTFeGVA  
JsARKZzDzLUJA7CsE2i27kxAP0/tHCAClqDCJKiEEyDey5ANCxDQ69Bv8Rx  
KVjvBICDK7TIBGzBNByBPfyPy+SfG4nXJbFCSCbA/wJcgDFYzE3VBgz4riMA  
R3hQozFAxeQcd22gLQvgTXckQyOU8imzMhvExyqjaDgNY+Y9By5DBY/oAy/Y  
sj7gco2yQY0uHhuQUzB7KBRcR+fJZFwo6oFE2enITtj2gQA8QXpAwW8Mr0aP  
n+oQjhWISBj0TZkhl3BsAAnYo3wkw39cADzGTEggR5UCWuYzG7Q85bEHwNC  
mKdxRflcQQzYQi3V2QKMApvqBwbYgqBiQHucwGiYCRfogSsYQFzkZE2Rgjzc  
2i1JwBGowQ841QJAAw3EAA307yq0J3wi346c5xFYifX4QBFsAiZkQr+0Bp/U  
QmesgQauLh+o+RrYyAqlqv95wsKMW1JbkAF6bcINnAly0DQdclAXVJsJztUD  
zWAJftunSGthhgqtlloPRoC8OacOcoC3CpdRfNG7WPVI6ASm21AdHIENfctJ  
SFxo0fVt+RbFUqwN3xCpx4EIXGxc3zDGqYLA7iuxeGYu9PVo5klduAA21EEEx  
jEQZ7sLHSZFP2Na3WAJvMmZjUsIRMZwRW0BN2ARBml7N6UHIPGgrGY/UwMIH  
o64edQDFiAA0rMEkrMlM0k/u/MlMhMAyVILIQJ2Hz0AIHMABPMIRICKKgMMM  
hMMheJ9Ds4xVQAP/mAVEZ1/f8UAMzNrKZhgMeAMywUMiXleBNOPOOQY4Pdrp  
KcL/jn2I6vDYOpEHKt8tj1kTdOyYjlrB3ulye98yystBjbY8fXdNczBD5qEH  
BTjHeqx41NSaddYHOFIBlyQzfhhOOEaBziA4cdBTgVAAQPYNO62H157AfKzO  
fKiDmfXeE6CAAXk0lzyvxbxqApDC9fBB/66ABJzAOUMOWPbOAgBfengOBXiY  
m/iG58Rf/6mBEJgOCphDnQYQBdiCKOnz+wpGLxwCH/yAGcDCDfzPKNpBIHWA  
jnxpOitqldysR/cMm9UkmrSMEARSWLWlsS0MEBQAnjLBl1IYvhA/vQqJanB  
TdNBsHoQsuaVoOelpwgB30bq0yKobub7mfWYfZKHCjF/1JwEbdKAIEoJkwM  
4h4Ke22xIUfokGv+q6ITv08Q+6nYVj28tRS9tUfE9am4ZQ6z4RK9NcGCvH3w  
+hvyNfrXQR3kgmq2ZsMSO7+qBGyRjIVQwsiWw61XAEDU2COphYUhtZl8gRHI  
HIUTBVhEgcGDRwGLBXgwYCAChYEnltasOXKkVq0OloQcEbnKzoEDOEJgmjQn  
BCJEy8o94QYkhMs5HB+VenQEyl8OZGh0UHOIQcfKBbw+FGAQQIhEiTu2LFA  
AtUFHX4MglHCCgsWFGBo3EohSokoVjltsmKFDa8Ud++qS7FhA965VnixsZKC  
LI1eUNiWlSyHV5MmvPQ1SSzZMf8bOXIs185npUQJdSUwwMCA4cKFJ40yZaJQ  
wlhEYxgoyLWSrwQL0MY6D05RYoM6ChSohAmDga86EIQowlZRGgPoDRQ2kN2N  
t0Qjda7gUdRTSw2eWkiWFECRgAGPBQImTNgBw4CEimgu7HBl0dZyCXr0XFhw  
AvrzCzCoWiGG4FyhiAEh1BCiJCG4MeAQPrRBAwYJdvjvhx9MSo+MQchAYwU+  
5ugFkT8wCQGWCcg4hlyjYMGDBglq2YIpHxJYIQER1ADCQQIghKmxDICgIka  
ZqAhhgKe+CEB8sqrCoVafuAqqQ5qOSK9G1i54QZkgBljDCKSIEJmlrAYk8wl  
OMBCzTX/Q8EilDYjaBOLCOgMpc438aQzgin41EADDlrwc4p0NjDETz8lqcGS  
OrBpFJs6LCDIEnqCWSKOOHaxBBQVvIijhRb2+LQgSyxpoYZP/RQVDg1ETRUO  
Dv5sgYN6AvVzVThe5UDXXWHVoj4lZH1V1CVU4TQXFeBQpQU4lljCEIVI3dSS  
OCwFtoU4LMi2hm1rKCMOgQaqYYlddqHEkl2WwBXVPRCKogCGWICBngnvQNLe  
AtISYQUGCsiAgTXmGOIDEUDqgJuA7fgDEZfACAEIVBa2pxcDUFADIZccXgCc  
YR7RohwGViB4hhBq5HGBBXZ4lponunOiAGNgOFkCJackGCIW/zbwJgrzVkBh  
B3xF40w2KHgZrITpjr4r6bkEG4xpXhpLbDLHGOTMMjaulgyzy9hojrBGQJNX  
oonmBbs2s5lz5i/QkoNhoeruMjqfJy444YTRSGD7AnNiPuE/DMKggLPRRePsm  
A3Wo8K1AFPRAAZwENWJgARSg2ogPH5yIYQE3FoiPavFQSK4ZzZ9EQd7OUkaL  
QNCZg81JbhQspQgakElqgSsqTOSHIU5aASwyVoDmEC3AwAEVO7TQwsQHAXAC  
FiGE8MGMC/VgoJYEjFrqwpNRWKOclzpggMclhdQjPB4SqGWBqZzsYBAU3AhZ  
AilnqH+CloqYABhgkuj/SzLntCY1if/pTW5qUwEjMKc8TUFPCXlgnfq0h1DV  
qlCSMJQG9IAGVdAjFaloVB3qMK0WqKAYxbEBEUhIDxNawloTbMEuQFGBQLWq  
VhzYAwfg8ClD2UpXOtTVq+DAQI4xawk9XJasYPUpcZ3QEpzKoahaUIZs7cIC  
u/hUC02lim9BkVt7SAdBWLUqYKmcXBZYQj1U8QQKklItUchAFJ4QheRYZI1P  
eEIB9CUEBhggCr4jQxGEwAdBloMM5fDBBEIQAOuhAhMHAEMvUFGKEIABEX2Y  
AQqA0IZf2MEOfPjBgQq5ACEIYA0d6EDPLHKBjBxIDeCQACmiIJHxJEANIuDD

GmYwiCjYwhb/ZynAD0Qwlc254QRWeA0LMtEluyhTmXhxpjN187SoWQZrjrEm  
ZbApNcxgLTopaMQ3zxKFeE3kAm852lwWwRtj7IYzVPAbygaxGr18sxEpylAr  
YNMZDHAGOGEG4GYBCEzjbdMZs6jiBLPjzG3iEQQIVgxwD9PADA9RiPCcRgQQW  
wlrwwOAEMGBcfna5AwOgDwUXWA1f0KLK8zSUB66ggDqC1CBu1OIRXJgBLGZA  
BhGcrEIL8EEHEGSALaxgASu4kAFg4RJUICgkM7gQD3YwMyHQwAwWWUBVOnAl  
WpKBD4ewCA8OIZJaFEArk5vc+MZDo5FWpRY0sMhWfuAEGpgEDJvY/0RNQhCP  
OwBDEPxLwprMBMAxqemAZWLTaznAjz3xiYGLLRS3trWHf1jwU1L8ADak0EFO  
NbFTzILBCVHIqQo8a4YzbKIlcHWOXAkLh8vaFat6BStczTZdr3WWJXbYAI XU  
4E+HEhe0dlGBDzTrVBqAQw2wBSxrfWoPqSquqSBLqzAiCoPXIpUFyBiMJ1Sk  
AGw0qdtiyQMA8QAHSQICyFBgjAKcrC2ksMggFmAACvAACNyYBhBOAoQ19KQX  
/fjXAf5wADtw4REuOQAqoEGKA3FBCAQjwwwOKSHAYdQ8Da1KDFCAkWG YIQEG  
WACA0HKCre gnATQ42fbGcolPkyUZeGHD0f94E7e9yJgwdxGM1KgpmKzhGMdc  
kwNiEiEYKIBNAPR0KwjlYoVGzOVO3eRMI5azAzSMggYXciXbmuOZC3zhAp1B  
HQaoUIL5lvQ3ozlBGO42mpd6+coupYlInqSHx/mgSAmgXC1WolYinUxyenAZ  
3eCcn/WggAE+++w9vMNAI20yOX+UpQTIwMB41oEAlIDOPGcwwismh5TdTGsZT  
MLIAPkguASLCQThEkJQjrAIMHfgwBZ5gFS50QA+k8NCUNPIhT5LCFtAAmBDw  
9bnP6UdyUGlrb5JS4IGwBQZomJnPJNCBUmziADWp9klo4ANkCOJ/gQWTt8s0  
JjhhAQ6bggMIVAD/imZRYhcaqNMxt1UGKWZL3hYwQjE+AlhipGIW3yDHqlpw  
rkDtoQY5BBYa60CPUg1LBSB0QR2Q9dohshBYueLVDylBiVXx6eKtGCIOe2vc  
HLKqBc064h4AzipWcWsJ27ogFJegLd3WwQXYQJapynCqJiqx5Hf0iB3F+ZtM  
JCTU9fl5zepTmr00YI5PcGkYUMANQI4VwmtY2AEOYQA4OAAiAgBihaGgz9M  
AgawG4ophcSHf4qZuzEbBPqc4IRa6lELDH7CDjBQgDOfwl4UCBINVvDTC0EE  
AxVqS4s/kxe91HjGcymaYgjDtBwPRmqSSQGPTzkyOfylyMrkRTJLsA3f/2xg  
ESxoBOTvsoEXf3PYaODDKKzMg79B5wnDMZssQPnmEhQgBt0IAz4pQAISJKc5  
LwXOBcKAnBLA4wuUAweCJnCDBJjBBzzAjyVplDkRIITC4mmoK2lwilqQ92Qx  
wMBx3MKC8cSX0PxcAFWuh4KWogUNaJicGyRwhXoRDJDdONITiqDQ1KAXVuEA  
wiFKQOJi7IEG5KEtMllgagENCmAFKJAL1sd3TskW+KAljiAB8KU5Ajq7mgj  
EuAlHowMSmkBeE3EVkAP5AUGEqaIWsLADmATTLB5ToF/ICFMws3bCCiw6AQL  
OKBcmIVcgGhVIIhQJKsGDEIJAMEgLKAQCgHfiv9BFGZBCsQBVwDFuCqo4F7I  
EtANtUprCVTAUSDuVWDr4y5OV9BkT6ZgDXfIDaegFRRrCnSBA+5QtgAOH5jl  
iUgODkLFVjSgWSzIVEQIDITB5AxxCWgOG+gBWLplWSqgUqBoG7aL0H6Jlbyh  
OuTlvVCAqCYnZIBgNTAgBdRhn7xpyErApcRDCCphDiZAC1BhFewBFcLK6lyi  
DUYkwLjuAHlgC2phGGohmMSnQnbgB7aABdKpcAogfRikwcnjppNb9xmK0Qg  
AbigCGpBciaCB8gAGSkGdrBCpqDBTAgH47BCppAABSjHaXGLmyMx1JAEeJR  
MAjixpqmEaBgyP7im6z/QAD0KTmSzMuYTGmUhjPyYQfqYzmgwKwQ17YojY2  
INFcQcx+z6Ca4QTygQVIYDRILx/UgemolD5qwct+lWzggXKeZEn0IPsk5z4Y  
ID64YDsS4AJQwJ+qJwpOQEFiYD1lg6P+4zcmxyp4Z14wQAKu8TuEAAbyATZC  
A0AqgQbuYRAYABYwPdZsTAhWgEdWgAy0oJaEoBx6gQwMTAQSGgeyg/uaDSkt  
iSl+AAZ2gHKi6kkkxCyiysLWSwKEgMBWpCZVhwbEi6xOpiUn6epCYBa1ABNm  
gBWQ4RQEQUzCBDIF6wFZE7oJBvQhA51ZQowk08wMwL8hAMk4R/KoAKUYAgM  
/6lCxlEa8K0OUiGz6mBVduhQCGJZSOWzKKFZRg4OvKDhQlGsdSjieEUX0GQz  
iROCGAsO35AD0OQNM5NXdBOHOEA3uVBYoMhPiMUSTsU2UYhUrnOEciEXrMhU  
XEu30uVT4IDoDMAAqALEMKEA3shdhOmTVkBIUOCNMoEXmKEEhqwii+yOeGAF  
hKAlulCTjicEtGAVtKDrXMIImEKENNKnu1AEeDKCWGEANamENLAIGruAKYoAt  
PucJ5G8FhIEEDIBf9E6OBipsVgd6EmRfrKcDZu0HMqA6PGM0rOAY+OKZEgNq  
oKYuAgPHKC8xdINlpSY1Pi8/kXRJz4I3ClOzOqObkv9MMdlpHzYAQQOINlig  
o9Cic1yhLeaCApKPOXxDjpTmFPeJyVxhJGEgDE7xGL5pFVWJB/TIRq6nJJbE  
JneAO2wkPD5nvTJsARYyPrh0Of5jcsajJEwqCsaD0ubOpOqF2c6DDLiABmDA



FrhCAm6EB07JllaAFHCJdnoBFjDhD3DA62bADc6yFopADSSnqPQA2eyslhhg  
KiyiRgBEP0ltKs6jBI+gCErsC0ghBuzvw8wqAUyBFpAHE5SHkmAhkcBgBmYg  
ARbAAQThMX2QTNxkTxaLORvIdf/EOadgCYpBBSyINGuAVhRFFLAhFz5gH8Qh  
s1yAC3EoXZ4oUHrIU1oIVJb/wB0owQsuTlzlKdkxk2ATCAuyIRuYkw/hIA85  
IBt0AVd0wWHrdVdepVq0sFf+RLZKbltuC+Bui4UWrrlaQBIGllwHJeQsgRCC  
oQI8JQOQ5AIGaqSWowRSA9Z8rlaB4BrTB8s2gBdQowRMaujuSDwSYBjUoO4C  
pkTsoJGurkH/YA4q4XjQEKN8gEEemoAP5pW7WlyPujBtqBghogD3FCzoWYRFS  
YBGuVF62K0b1qL7lwA5UYqQKgALAhgTUGS/6oi6cSTEQAwog8eGVGoiD8eW  
1PHYID8Tlx/JljclMsn+wi74wkrVDDi+NHfg8gRlwBX6AjTQDPng4T9cKgV4  
gW2a/2MZgSPv4ME4jiEvqED2KEcENOKqFmAUoKIASsOS0ABZP8willobsCwf  
6qY06kY0LgDDruoq/mM5SgojuKE09CAGeEB1YvARHuFSJyQGEkAPboRfYIAG  
buQkSkkLNqENcKANQsAOYsBdSrBVoeKqUEAETqJWM4Baf4AHKGYF6tbv1ud2  
7wgDgTUB3MCjeKp2acBDomACRmYCaGACYMEMZqBpMWEcNuEGTCwBTsFLiCAU  
xM1OEJaxivNPIqAVinMKQvNPcKUK2pUDIDBUaEUvHqUOPoBRPCEVYhMO4iCH  
yCVd0uWGlvOHd6UeVEDjMJMOG4gNH/ZbBSshCXZis0EIL/8zGwB2YT2OA9iB  
A0hYC3NIOHkFha9IW4qw4kiFEIQBWmgIVMwIUBgosTYWh8LQAK5FjezIVW/S  
ZIXDbaJil0AiJ9RQqggBTKhBJajlq7sc+7301i1CEqBJrRgkZ7WJWAhHFDh  
DzqAFIzKJIRgGAg0+8CLe5zi06iEYCbqCQotITZgNk45ndqIz0IZCPSLCxKJ  
DzgiwwZKb0m3CZamaCI3SCdPmzCDLjSPDaBASZ8mE+qiEYpMyZTMy6pjyZQM  
CuaiCXYjnTbAGDYgCjDAB2yBGT3mzYhjN8TMN0oDwyHHXhBHUYvOqJDzGBg  
TX1DL0qACt5scT4xfq2CAsaC98L/gAFogNBe5GcuwHp8AC1sYTSQQ3XcBgl  
mQe4wXRQZgfES414ACqepKGuYBR2QAis91Lx5VZLwqzOoylMCWDAwHxJxA4A  
8zzUYA6s8nZJkAKxpWPsTH/PAwVcoUAqDKN8lwbAhwlbJzwwCg3iDnwTIG7B  
YAL4QAj8gAzl4Ai0QFkx4QbAwAc4Yq/GAAuu2k0UdoS/tQ1JmlQTi4H+hBJy  
wQXmYR5yAVxH8x/YuhHrIDylwBNi01lyKONyMzeBJbG6OglU1h0ANoEuM9wU  
dlcANmET1k0QdGw+87DV5GARthUQ9jJ15YmFEA7h8loSkVqcpQKa5QNAYeGW  
Cw4uS+P4/4RQMO7caqu57AgjymMLMkC+zEIAxCKT7Ohf5qAITEpooeEHLiAh  
5oMqGOAEWOAJQuM0ABUFTkJul2pEaLDAJoGQQqANgNFEuYFE16BVxSJeKAlI  
oAeQSsxEzaOIFiEuMMARWIB0zwl4JoKVFAQI5sAOYAEWtOAGzEACOnJH73HJ  
GjcFXqMU62lyfrmatMaXhZkf/+LAdaOevImZq+OUrQCaAUMwMqEsSo8zSEA0  
8uGI7gJsFJwNesMhJ9omFcSk4IEK4EFzOxI2fmMVKQliwOYzFMIVPonUarKh  
VpwCkHcoS8oV0gcF4AEi1UEPwoB4LyCb64VxusEr6iYKTDwla/9yITgioA+k  
Foh7yCeHYHxmfTQCPWChCDpgGCTpEXriAErhCIYBQdZAKAhGjw6EBrSSD2Q6  
ARRClE5SQiiGWtdLJIJnz0rsnwSpPldkZBIJRwZgDXwH8lJnBmZAqumbDG4g  
HuiADthhDFqBHS09gCGkG6o4sRSIlgOgEDlwgFVygCrxgCoQ4F4rBAAtJhsgIB  
HGahXXOhg+qAEFFuDWLDGWFgeYkG94QM7eassukfyBhB/nQXIBTF7LhSyDW  
CyaWr1uhFSaWA5idsecED73ACywB2BOWTiwWN3fB4nTTUmQF5W5rCVKFNMTA  
BQpBFCCuVEIIFsGXEjFEuCYA4hOI9b/az2fYMjCKSE+ByRwuxRhIGQYIAN+  
gxRktm63IV7WoxGOI9D4WQ1WDRMwwQ6edmFc2QC04BcmAAhqwQeAqRamgRvl  
YBQkQDkCVASKQOqEiCQkgAHsyA1QAAMiAgPkaAPqqTVYwBYowABm6m1LwQ68  
ZxWAp3M60sboojOoGW9G478rY2qePpixZh+dGUqtnp58VNE8Q58cXPIyAcKn  
WZBpHjqUxmykwxRh46tgRw0oJAzMIQbM4QTgARfiHiVd4QJ6/DT2YjUqlqQb  
tQAkIAauTMzgLMN0QgLmo3rAgRs+AzRK4yZLgwrkw+98QA+4ITywGcxuOgGe  
giKepBZC1Ke4/8EKwiAGNBUffkD+9CNJHIQkuGBn3bsNqk0oHkFB0jxkimAY  
CO3jUQLOhSABVrA6YMZTqVVyosqU0ocCOQxfAO8QurlDtAGqQ2AGwGBFTAyY  
6o4LVuSQpHoGyoEVWgEY6ODZLd1LNF0Drt0LsiGw7CQUdKEKRp0N96Bfc1OC  
0uEDREEKQmiGcwEgKC1pEUeDJA2UVNQPzZgmOhikcdOnKhiXCIAhYKlrMRoRI  
EkggP46Joludl5Nw4GRbycGLJS8T2UUsedJLxFatOHBwxzOPzZWtMAbVyWEX

JUpe4HCACGfJwDg6NWhQZaIFCw5SNfwrU6FHnYWEBraAE0eV0pYarP9qYOEt  
AwUKTy5Q4MHD1ZNGrt4W4JGgSJE1P0hhKLCgQ4ItBQw8eUKBCoZGLFKQMEeh  
EY8YBIB0EHKkF6YQqxCJFv3LTpFDcyaEsBNikxYRIIYcEpHgB48npBbUEiJk  
c+8OKAqQMICBxg8UPGBgwOBoUQkWUaLwKPBkQQleBrhVmrAFhQRSO64oL1HC  
SqYUKTDkK5GPxAkqJDaU2LDICpsmTeSwgcKmPy/+bFhhhSNWQCGggCIsYEUK  
C9oXYH8PMogeCeUZWCCEB6Ywn4ZWkFceL7ygx6AVjTRSwlx08XBBN7epQwV8  
JCx3wglvUcHDbwxsAlpUVDgSgGuoKCHBLH/dbBADBck+JZ3PI7AA1wohIEC  
klGU4MoOyPEgwRfLwXABCigkwABdBVCAAgwwFHDBDq4kUAttMTCwwAlO4DHB  
WzxY5wN2NzKAwgJoolALOLU8kcAKM6hxACJ/DCNEbLCJwEcHR/zwg44rPArE  
CoN4Q54xFJR5gY4JyDWIBBIkUFwtCbgpJg0zaNOBnzsg4UQMXEwwARik0JAA  
DbX4MEqpF3RAhhYTgLHJDf4UUc8ebgDzLTZ5OROFVWwk0RHHYXibTZw5KJU  
BN6Gkk0EGqSjrgpv4GOJUylxcFALUu0hTirkpFKHUnBQkosKuoyBBUXchhIB  
EWN4BNLCCSSQxxkll/yXFQTZTJFWFF61ko8vEGn+SB7ZV+KSLFyB/gpQuEURw  
LsoaYJUSHO7YJNVY9J6lQQ0WIFFDDS3ssUc6e/xTwQeqqFBIHe86RVUccEic  
ISN9CCCAiT36COR0e1n6A6VHJICcpQb8kEEBxc1a5jaZTP3WBQUUgBw3tXDB  
xRFcaFGECEC08QsiByzaQS0zHLEGEELQII SbtaAgBAM/wEBnAr3VsgLeC7h9  
3Q8reC1XJc8FYUxGOTZtm1qcCEEFwyYQfYgFGDABgsCZhJgh8ZssF6HsOdT  
n4gPdigerFDYaGF5R3YCIT9OZh8gyRC0QiAyx+4IHnS8xJgCmzwssEJdv99  
SV0BfjKQlurz1Q6ZK66oM5egeuDhAwprrrsBAZgnMWdyYC5yw3FwLMLaAHshx  
BQ+Qg6YLSKkKwAKRACTpXQBhIAAugMGMzBQDCfDgB1eqRS2mg4ld7GAB3BBS  
4lp1QfAhp3ALYEDbuNGBuRXhCEBYAyZQUQQuxLAcHeCDDvkgubZljgYdMEwB  
otMjNC3AUiK4AAwGMSc/AeuJkuPBCjggDTL4AAZR2IsIhDCDFUhgFBjYAA18  
IAHvuAGMMzCDD9YYgx18oRlgvAAS8CCleNAiZC6gxRi21a1QEOFcHEgZFspV  
kSlcBCIt04khF8IIDohiFpDUFYXcoYJcUCIbDWv/WEgc1jAigMQEkABISMag  
sTGYMpmI2+NHPgKJMeiiCi4IGchOgg2aeEEFNmjlLhDhe4oA4xcwccWrAE  
olhkCumQhCT+EbSt6lyYxQhGCyxRjH+p4JrYxCYIONCvPmTimyzIR+vewpgf  
iKAWNBCBACAXucTB5gdosAULFiCBDojgEP3LQAZK8IQoLGA6DOCGEAA3Ny7M  
gVdHmEMb/tC3A/QCDVwUnAj+ZoCBuooBKkyAE0jVqlkZIAF6+MFe5nSm6gCK  
AiwWrgS/dyM1nJNsemDFFS6wgf+UgEGz8115GsGg4i0leNmzz++KB4U+DK8R  
AkKqgKBgPQz5B0D2ERAv/2Tn1J0aqHg57V32EkS+KdEFo2PCgIfysYHHsEB9  
JVCHAOnSjeA4LgF8SOEPEHMBVtEpBjDgZ9ui8AQGAHA6A/TSBWIAJgRaEEgX  
SGzbqKBA6IEgDBLQw24ESE/NoQkGA+TGBNqWUEFVDjsW5RRhuFiKODhhdWsl  
QQhKoYYiUCqHOIxDr1RIJ9gU4U1tK5NwdsCA2LANTRxsVT1p4CsJYBQNZrCH  
BBK7gyDqAQ07kABhJeCDK5ixjBjww5AW4AYMWAEXJGjGCClQjVrgAQy+nAct  
WtHJJPixIxBwra8hZGU+dFbRAjFluObsoukDBuiSEUqsKGCfk1sj5BoWMK2  
pf8xTYbSBKCEcCgzKQgHh2RhCzMBMMbwiU/gIA8gzgMtPPaJEX+CHSWR7yY5  
7MtcoGQJTbGECrY5hbTUQJn/wHEN9tACFaCjGNPMhZCxaU1rvgsUxcgE7DJB  
DKmVaBs9CIsCXGoAClZqnGrghl/guYBGEIYPCViDHv5ZI+8xjgEd0PKjLhCG  
SZDBHnAWTUP5AIMfkCFwa+DiFrgBRHR6TaRHBCtxhfCDVrXtCWFbANvoBKge  
FSADTyiAbQbaGzWhgAE7uMDxMuGc8uD0QMW7qRwccT3syYEXCNKQiMzjvKUK  
r0QHgp5T/8MfpcbaqQxqtfR2jT0lscBEmeaBnMD0JPL/sAB2i2ABeSigvi/x  
YJ9lokCxOoCGBNyTByf4AQ0luwPHwGBMXnlbcsKkhwscSblikEAtyjuGITh  
LQpk9gbksz4NxsBHPJBs5dJ0o0o8QggG8IEeOpAc0LJZVdYRQSkqwRotdAAM  
YCgFOCZghyMclYhATKNx8mQAINRQCEwchHAysIDY0KBzUQAuCibXKnR2wEkL  
QAMN+CCBHZZAOqxCwwJsEQM3rGAUNJhSdrHU8y/gIQZfIAEuboGEMMBDgHqY  
ASxjuWFUcmuQqyTCIDUy305aRJAz+XpGvMCTIEkxYglmJSQiwAFzbcyTD4aw  
hCUc9wjPXe6QEARINjyteNCB/xaAHzEtQFxiOmBBYWn/l8koUeMIMA0OdcBG  
HQayhH9ZIGjKTCaPcyGKYsBBxtf810koic13GaEHjchEWp+joef0yFLgw2gW



GcAbclhgBo9YwwrokoEokIIH3FiB/EQwPyZaqjdFeAQZ/MIHMJCBD+FYhT3+  
QP1edCBTZLDDKo5ghxmgNojhUOcKajHE3Ijvi7UYk5P4AqZLCxujbloApIUt  
7Df9IAqNUAcGBIsAdXC6eCOCUzxIPVbQBMqDIT+1IMmTArDTIM/zPAhiBahm  
H1AgAE2QPQv4ahroVALiUwjiaQKyH0zFBs/hZQqEAa6wHFQwI+8RI/NGPi5C  
ATHgJv8WRAHTQx080AF2MAESIFYECPzYQVrZW7W1iq2kRx7oThRdIR04iTo  
Az+M9TwYgCeqcm9pJShq0AE0QCRqsBuAUwQeRwoyKAQvNFG9MitF4G9agCwh  
gAgA9wNCoAZyODnmNCnEFjcxFOtXJ3yAcghTtACksEBo8it8AERBRHNpQgpo  
gCo7YEQJQAbagAZosEZg9EGJ5R1KIIRwAp6QANuAANNfwYn8EUMgHsHAAZ3  
EA+pOC15ZwJ6J0qtdHgdcWEJ1hGZHeq3iIsWpnYIk0mkNAahlGEmwEI1J3eu  
alxyJwh6JwiuKAjAQAdjQAd0IBek8wkZkxHc0hGHlZiWsRT/9VIF2EAohaAQ  
UkBglgAIFZAV/6AC4ICOCkALR/EJdBAPksUsm3AK1QAMrXAUjbANvFAiAvCP  
kEEBxtA2wmYABpAJBbBFicANPyA3RSAE+SYcmCVsj8lqwlYbP6AGqKURWgAL  
M+Bau4FaqNAR0GBOlrAK2jcHpdALWrAKLjkJzrAFtAEDxkAKpFBnvQUEajAm  
AOQ2Z3Yc0wGHahADkZYiQmAGAEcBG6APGOAlwQEFDbggIbIBDIJqTfAfTQBU  
D9JU+9FUHVICi5AgSwWBHUIlilcgLTSAGIlewwOWI5g8JKhqzaMhVkmVaokf  
TSAfLABBoFMCmWAFIcFsJBAjjCAL/8uBPmHAA1vwAxOAB/GRDCg4F3jTafIQ  
BRiWCBtAAmyQARYwVl5iKR3gA60CP3OiQeiHHQgJP0/iCicAP51zlvpnRCuQ  
V1aCAuDgWmZABnEoJn6hGhNACHiQLI8wAZICRIRWC8knKY+ACb1QBChActMw  
UPaEZjm0AnvBAXPwCIKzBjNABtSGKmgQGwAA6SwCD1CCisAROAZRCtQiGVk  
KRlWCEaEBIqIBIMkBKwAXYoGA3XiBjZ3AebAALVABnpwA7awJI8wCqMwA3hw  
AxAXoZtwB3eADDdwAw7AjCaQoZzUMHSHYSD6SRCmSZmUDRPjMIiXi9kAE6vU  
oaZEBMgYo/8yeozJmAQblkutwA6tkBE8OkgyEQoaYUHLwQHJZAnYUI6WkAup  
4AK5YAmWoApSwQE9lgrfgA1e8IzxcAOjEAM34AQH+gVlcAWs4Izx8CRPKAHf  
5AgC4A0sgKaRpiOP5g2IBgQMAASNYCmDAwRzoE9zAQRa8DcAxwOwwRsdMAHJ  
BwZtWAnhUHFzYHGrsH1rMB0GoAalUAqM8gdaQAM3YAel0AEzMAP29APu0Qwx  
QHxAwAXDwA3coAYr8AP/FCpW4jhiNCbT0YgMkABkhJCZcAHwQD7kESlp4Aj5  
EIEKqJf9lQf6gayzgzxnaQXHTmu446wIEAUcUiCNoA9Z6ZX+gR//1QMFjkAg  
31og81E89UEiaCMAVRaI4IQIMYJSJUAFy8ZsGKB/80oF5WYXtfAleoA2J1AA  
MCBQGtQ/hYk87YBCrSCbeM1CJQA3DBAoAUOPuCVZVQACWAAActI2wfEW5DGv  
6pMXaxNGC3A6frEKa2AAfHAP5TABw4AK3UAFx4AG0EAKscEAnDUHj1AJlAr  
ayAajwA3uzdAluAonkoGX0WGpaAFR1AOa1ALZuBFaDAPZFA/T5AmBkBPpQBD  
cDU5HtSI8mBuTBQGuABdkgnBgo/4YEqkeUGHbQDo4AHNDAKbtAjU9INavAl  
jxACYHADIKkan4EJeYsHyIAMDoAEDuCK/6HkAlj7oSIKYyJLD4WLuBkqCHTQ  
NHswEplUix2hMZjUoiSaBDP6ucZYuKDEjNuiS9vCR9mYjfsFSdUmCapQB6KA  
DbHkSy5QYlRUCuFyL1UADG0VA93gBm5wA8CLBNnIBkACqXwA4tBAWISJRQQ  
BZmQRU+wBWEzRCywF9wgAtywAHxwCJ6qGqLlvTPAANGwDXxRsWOyThN1BKiw  
KFqACXbwGSGACsppB4iACWn4CHyzKJMQNp5qHAZwe2TQT9HhOGtWoBZXP6QQ  
mFjTnN61AheQcrOXOTSYGCrSOQACNfixgHoJBcn6wRCiH/hhIVZgDBvSPGtp  
IsdmawcClhASgP/ZQ2vP4zzl6ghy4K1Q0Hqx5qw+AgMsoGSN8I/Gpmw94gqM  
VQJiRT5WMIUGpDidNSdh8yhrIAJkRAG2QLBGHAbPUQImtE7E9iWFxVnA0iou  
VWjppyLzqkDOuhxTeCJeMpR88SgzMAEzMFIMQKazwAVZlgEk8EHY4wOuNQGb  
AAZFMAG9cAA4cACTgAkTMCvzlwEcmUO3ygNx2FrHwgdaMydMVJqoQlytjikJ  
YCwzQAODYAumXDIPuwIL0lj0JAERUG3eEQYwMFOo4h16EB5z4gSo4gRktAN6  
0D5mMMpe5AS8fAPVklDmUAsTcAONDD8nYA3SIAuyYA2PG7rWIM3SbA7/2mwO  
sgAP0kxHqsRKateiGAa6Miq6yLiMELaMxZh24jzOmTsyKdEyF8FNdUC72EIH  
gtC4/NBKdIAMtXAFSHC8A428Bn0DBX0DyatPkyE28AC/XSUqt4DEQnKAAE  
lpBOHVAEwzDKW3gl4eAr05sYCZBb60SxZBgCv4AsmlAlqgUaqPAHIXAAq6Fa  
DaUFawANFqsNtbEFM3ADfCCchPftI7IGeSgCaZKuTgl+YXNpMOAW10sYf3lo

OCIBTqDFnTkgepkf93GBYvrVH7zV05MPbMyAtkZ6y4GWuwaWUSU9M/yWjYCs  
HnzDUHBTJjggBtl6r+mu5KPCYXki++cKSDyu//NxAS/SJnowUOpm1LWAWkaQ  
Vx2ERa4QBgvAbKHiNtIjHShylz7gKEUARLRxq0HHAC/CxvpXAqCzHhRwAmDM  
sIfTG7BwA2kFD21Tt48wDBSQDANUP2SQhTOgLLmCCTJ9AH+AqJhwBOrEA2oA  
ZsM3JpQ2N2TwTv7qrxZNwWhgKVtAwWSwm/46CDuABvKgDbGCBlewF6hSiLVA  
T2N2BdyFXU7gHfYTRj6gRsVxBaOwRj5AAzsQA+52BU5woWpLXTdgBnoQAzNi  
C4wgDbfADwxuDy7rAPxwzWAKD1+AdAMdA9wsDRkaohwuShFWjOeMzjlad3oH  
ore4SVZHCNDSf+iC/8OwRS+VAW0YEFlcAvWYA3mIA0DveM8zggngNAKfQqn  
YNDIewO5xTjRkAlu8W3g8wMlqbH+ilHZuwJh8wNAMBSQAZKexxjMj/rRE+K  
QRfZMQwvpAXxe7+Y8BmjYQcs+QsqvRfaSk0oA0isAUdoAUzIHKEkULEJymT  
cghtQ7BPMB0LcNIq0k/QoSZndgilMwPzjQRiRZb9sdX4oR9sYomYPukj3CFI  
VZgKwgapxwsswMbmAa0gAj229tZw3QdGxerCs8MV6AiN0DooQJBWAg+4s2wn  
0Dko5SlrIIKVCJAyyo+cAR4PjdrwAe00YiOVtluLGzI8WgDad61oAbD0AH/  
amBteiAnXrMAGPAiVAAPJ7ADBPmDMmJu6sYqreJFNFAZKfAjDFCcppRAGJCgk  
txpEtGFPnLEGBSAaqWoXBBpm2EYwucDFrtmt6eFrVomKac4aNyqaDAKFGsY  
d0YG9GkL0UUDsQ0Lb0vZXiTePvAD1MVo24UCTnAFaPs/NLDdNzADcSWJEvCp  
V2AOjAC2uHAFbiAB8BADV/DTrOAEjMAIhXkCuPAFX3DjyXDj1nAMw0sFYVAr  
SPAFYVBB8NANeACLIQqLd2fOXB+j7Pz1n4TitwgHVVAHuYAt8qwxuhBLVYAM  
eIAHbpDj5nALv+sEPF7hSGe8OB+mrBCmXpu8krZO/9ywTojmsMR3CAZwbN/k  
DVEQNtvrDbO+1L21Bh1QDiLwQrqCOpaiBiHwCB43AXoav4IzOSKAWkwc04jq  
fUcgBEi7g6hFCj8wCJOS7PJTAHyg5ToUG8LX5cgBVmliPok16sagbLkVG1ae  
ODCABjDwPCXgCOjxICK8wZ0pITgVwmwQmLRDVs0TO7/2rNAKrZIAIEtmPG9N  
168+wwRiBfJxluxhDB0iVlscBRvQnk2y/C4Cr746PVwMUJwBECK4cJnjI0Gt  
BCsScBOyogALRzAKFFhwgQIFdRgwnLjAY8ECPWpqfbRlwRUGdTBOoPilQg8K  
V66oUMFwsQAKBigSFHgy0f8ADW0rXIVZQEMluBICLsBAwQOFzgQf9dCoJeRI  
CEQHUGENoSwpCJ1kynU49GOFmiLcOnQgs4IGmgL5mApRoyYqj5s7ErAIA0uC  
hBMwFsRYMWNGBx8+UCj0YcYmMv7ayCRg+XQBC80JAX2Q4MMmRAHNoWYkPIG  
iBsSYnzBhYvECVmyqFxy4MSNG1asurlBwsoJklu3pMkiQQLXiTAn3FyBcSuG  
ciRX9OAx58CBCUHxtV830d379+7cv2sPz896eBPcrV8XhF3Q+1MOzK9vv94E  
MPzI8OCZgMcHvBvoOAAHOrrpDRIWkFHwhhuQ4Y2VL5BAwo0vKmTkC0YyIKY1  
XGL/cKOAHzYAggDFsCrAB4YUJGBH2DAoAQWWljCAA0AuACiTBqBB6oOZujl  
kDWKWGOSUtaA5pBhHgFjIRA2CWcOTCYgQ4RBBhGBjBmO0BITr36oZQlugFjD  
jllwialAAw6ZQYtytriJjCPI4MAAD66iQFuqhokRBYZKAAGCrzBwJYNoqCA  
IAJEWEGEEEEcBIZGGkmhESusSKHSFNhoYIM2LE3h008rZWNUNihlwQpj8IHH  
ikagoDQTKHIsYYMSLmUVihJKsELXSk+tdNdfYDCEUfkiFYOV4VNNpNFYMyV  
hHwckZECK1jI1RhXlrpgBwoa2WCmFErAwlpRS6DgCR56/1rjCLq4GGYGPWZg  
8QchENoB0CgEYIAHF9WhIYILLsgJJxRGlqUmdaggoYQLLFNRhAR4yBUDVy7i  
QY8EhNDjhyd22AGFNWABowAq0GCJgSJKuYICHnjghgeNN6OoAxF6CQGTA1ZB  
5A9EuDiChn0Z4IOPDuaERggSi/jsBzRocNEWND0QQgidOmQZgRU+62UUGsLY  
Vo/CbphgAhoWYGCBBHzQBhZ7epmBhqZ2UE0nCd6lgYaYCGDydAmeDsEMMDw  
QbUTWiMhNipguECCj81gBYkvbhuFIVswlCFDW2Q5gREY3PCYNzdWexwJeKS5  
hR9+kJAPD37wWA911O2Tjzz5+P8pL735yEvPOvNOUdABZE6JrxtpGn9ddit  
w4N4cyY8RXVk/L7BjP6cwOMGH2xjkJfBil+tQjcYkUZD8WVpjfsVWDTghxV/  
CHGLLRjQuIAMYmwkkwKEOKQDBrZoghd1olsBWpjEBNZ1BCAAQSFC4IY1GCH  
0BwgBIDTgh3mslVD8AEMFbTgHOYAp0msgQzhCEcvtKAFPrhPBETTAx/KQYYF  
PAEaQSEFKaJAiioxwAcTgBijGFCLH0ShBMbYwSi6EQVDGWAXkzCIAaKxslw5  
YgP5WESlkiUsR1hhESmoohWI9SswYqpSuqJUpXAVKUrpkhMCgEKzSsALKPBC  
VyxoBAv/KFACNLqqVXsUlzrst0YBLGJYi6girTbAgkyYqxG5okBNXMGDBoQB

A7xYZK54cQIM3C9bTkFBAaryyGFMIENW0EtRMIFNfAgCkQcBETaxhJX4LER  
GnkCVBhggJN86wKNCANeeCACESxAAjtxRD54sBRPPgleVIAHoFyxg731gkU8  
WlgluCG2KGyEBz8QQUPW8IMMFIAGPhgTGCZIGrDwr2C1EEGPMpMQF5bjCAuw  
hQQKEAUYNK0DCallJw+yFhrwwQejQMEJ4HE3vdBgBqnxWgLloA1tvNAJU6FB  
B2hAgxWM4goxuMAozJA1wwAOcGDYxASOAlsb4IEVF4hBM15z/wlShEEWYaCo  
HiSwHDeYAQ962EFrZqowKiAnDBllw27M4aFumMMcjlINOW7RjeURrxuok4Y1  
imee+SSvdrFLHoJuAAZkkLQayJie3/AABggtZz/d6AY8zMFw/9RCD3owwwwx0  
GoPgSIAVKUVCNxeVlYsz0OQuwLkYNCMHXyBFRTqXhgw9IVbZlgrHMIFAxJQ  
0UVxkwFAMFot4He2AmAgRyzlnwOLQJmAZSAA8itCEbSkhZsd4hAr6OSfIAA  
P2UiAwYoDB/6Eo449ehKfiNDB7ihJXYJwQAZKO4NVkAKz5Dhlu4zGQxgwL9D  
sAiDGP1BUWKIT0QVYBATadQTxkuZUf9gsgSLyMcGKnUs+GrxvXlw1nfvGyk9  
QsEKwrpVGIIvxiyyIAUYuFSorEABEIDhvj3dY6R2ISslw8gKmfBVG3NVRwoo  
GANUalQAShCTk1BrVxsl1wbuCLCO5OSHDNADQ8DxhA875SAzEOU9N6w4HIAA  
Bse8gEzgoY6K6TgBCbjhc1Fgadwo7uWrQUKYHSSAlxArnq4SBSeQIECdMAO  
YKBZAg4hAh9oaQJPsNYCmkyG1nmpDWsB5tjWAIQ5zEAEwO1AEda05n2qCAOP  
ncGcuuuxISMGBjoxsx5qoVA+mMEJERhAGGwBgx2sgGgTaNmOJHDRgK7gByhw  
TF3JoJlaXNr/ohOAhVf0RoO0AQ4WHSjADhawgxjsgCbFOcEoEsOKBIQhBhK4  
gg/gta3jbA42QkUCrN3ghMamdampjceV3KCYMMBDFhUKAyM8dgUJ6GEUbtg2  
hsJQ7S9cAQW58QFKGWSGceph0QpxnEcnqm7ruUEP3MZNYHujVwZJwAHXl6mC  
8OAEgOfmBu8O3XO6N6FmbLQZoPtCGHCBIUY4HEO4MMta+ABMFgGBITSgkWVR  
AANXseAJBuBGa4cBNwnQiAZAAOYR5gDBX2j6l1HlwJmiHAZ1eCMKg2BnEcAQ  
Jy5Y1AdqSMoaBALMNdTCByKw6xpuslYdoGFo/EQRA1iqB7NhLWvQ/xBRAhZN  
igyQ4tXxq+EhEIWoWjlADbHU1SI2sIEqOmJYxfqiF42VxS/WPYy3qISrIOzg  
9eZqV63qO65qcmEH34qNwrprfmjVCL1nwlajVcciYymARpjkhGmlaU+PJsT  
qUi5dR6GENRxjA8/xddcgJtJMMDSpdhEccsE8rlqKQF43JGOFnvKn3LS5Cdk  
4gkx6KRLPr6tAIDgByfUQi8mwBYfFhcOIL6jJ2nAhRD2AhYhOAKjDpG3Pq9B  
CyYt9RFWsyPeaGkFNIKBWz5zhBWQRJ8+ABvaYqCHzGCPA39RjTk8JoFRIAPq  
4QYUESYU+IxPSwAdMgNYmAF7glWKaozSQP+pDdICVhiFv5iAwDEDp9g11ViK  
E3g0rtGDG9CDxRkFbZiAG2CFjWq4C8iQbwuDHegGFNg1x9ENpZIGiHMsJ3C2  
0LmQhjuBHRDCj/GNUYCsMCABY3GsxmAQKbkBWDCDxHACg/ilm7INCvk2txqq  
bJOA7Fk0m6leVjiBGKAeBtmrf7MNJ2CQ6Zmo1egeN3AqXruCK3CCI2w47hGO  
C7kC1sCtFZC0NVg/A8CTBIKRQfiTElW9im51vqmpfsBMkkgEaCBOTgCTLAD  
mUMDiQAR9kEBCsiHM0EBGqIEo1sUy+lfleGCCbADEdChi5oAPpiBNRgEUjAA  
aKgoPzGRAPAAywr/tlAqi+6CAT4ogC3IAEibxB8gBQIAAySaiPTZgVgqlyvl  
BwyllrmbOy8qFv3Kli+yrzBqFcbjr3AhvEU4IVOBgsVLljoyF1laJHVQhzhK  
x0zQilWhl2tBpExlBDblhExopBKAAmuhllm6MAjjoksRFyolAxS4ABTBiVow  
ABEoAjUQAkmpvUfCk1qohQKIFAqlwdlQnAuAB1flvJhggQvAGEDJIYq5iU7a  
safopCuTgE5SomO6KVdbgVLDBEwAg7eRur2RF0BZgB6pIFTAhNCwAz7QtEOg  
Quaavu0zp15YBUzoBS6QLhSoErfQAnuYgQWQiBS5NLDJiQSYilo4grf5/4FD  
bDTEujQzOI3iCiY0KAoH9AoUoAHq0cAnmgGUlpseKTUyWCwAFBm0koAvkAA1  
jIFmizUfUAhkGIXFAQRHuQE63KjKmlcK6YYvQAHJacu+Modqm6zjaLYd6A3l  
8bYTEEI0yLbcGIULYYQTmA0hRAhfK64ZiL4pXEGNupsrCAPLVKpjiLYikk1l  
yw088Ki9igFzYAVfQze9Ari/WMMz3A83gEMy9JBRQlleXKziYI1qK6zpnlgv  
K4dJEAE3GYQnQKJVwkcWwDyWYZQ1WAMPKgjGYbkQglUE2IJBXJRYu6wi2CfX  
KoLu4oknYIBDKYCEYABg+oG9EIEj6ABUGBNYiP+/P2QLI5OTuCWAb9jFzLgl  
JVl6nymHpPyBQ1mBBmW1KGCAGagFBvAYO9oxBexKx6sig5Q7+olC+pl7Gx2W  
bLw7/fpGZQHNGoVR4CVTOgDKOgDlzUjgMSjC3OVWmFSWZlWGOHHZHuRSHm7  
XbkjDHAVLSrlvou7X2EBy3GFAiDTnCGAJUsANeCCWpCURFokeMi9eqkFcNAD



DrMWNLqIhrG6FEmRhBAIQ2GYR7oRF0m+Aoi1FO2AR6iF9PkT61oAHEo08wOD  
FoEBMJhKPsAabWCTPwgNTPgDVkJNAOWFHyaFZPyBlpBKCEqKA+qAl1CDj1gA  
bTAM2hqmWE0ACWUDUy0D/gXYyjFgFGOUyLpZCg7Y0AzSQBxSwqBmlko9SqEfQ  
AgTUhoX0gVroESicACfQDD6wh1qAKVzAgLvJNvzD+aiAVZYgCtgQHtQjW2r  
QwbxzKPqDd74N+l8KmlYKiA8thXYAd+4jTXcDzOEQpRyg5WwNTPAGMPEmAmI  
HrvEHlvrNlxwrG/zTFmWzF2zqb+Yt79gwxSQHbWYQ9+YkGMbBWS7DQbZtd64  
AnO4jSvYNI5bjekMA964AuQoAFKQRSHxvkHwBm/IAG9A0mqJAipFU2jogBCS  
TzVgizWYgUkwAwMQjI9gAbFLgDnggsW4jJ4wgJH7OGNwimq1s6ZJoQkYvzkl  
/6FYXABG6YATKq6uxABjYJoVoJktSjdB5IIZCAdtoIFBQCJoeE8+4IEM2IIO  
UFEkWgQM4IkFAKd/nKV8eK9hkYP9QpZHEZYkLRZjudFweTBLGSMzCjA4eq9M  
GNljndxE8LB2bDA0mhRKKgESoBZrmZhoJLxEogkWaNXTEbxFUIRcAVMrgFyN  
OBeWeQoDEAL5MaVailNMIZuaYRjUlcd4YY8AYcTYCMr2LAjwy0DSIBNQ4F6  
MQBVEtNG6AhPnEe5yIBwuoAgGYZhUANUWwB5glGzQ4M9Kwc7mKcdiAltCYEp  
EYFy6AWdPAAJMkol/IFy0IibEIH1UYg1OacDAAO77f+FNACBI9iXooCTFTDM  
nVCRFSBLnVAILKE/DISB57gAjAJldy1ldSJHjGnG+gRswqoopGAbkgAxxgb  
aL0oCSADMECCwpEGDLiFhsE/NSAbLNECY0WdtZmBGBgqbEvX3/CaxXGDnYoB  
o5IApVqqb0WBHZiODpBVkGWQxliTG9CCwLmBbcMbw6ief7OpLzHX6Rkc1YiB  
DEEOz+RN1Mw2lpCbuXIDNBiFGWCFxJLi/VhNuTGQx7mN58wNbMPOlcXMkm1B  
CZGFkYUsNOEmPliDe/gBaACnKPAGY+DZTPAGAEbGFGIFBK0KYJqaOmOafQlM  
/kGXBDgCk9KSVTiEaPgBIPj/sgUIXAY1yxuoCjUYBlN+A3PChCMwgF2kmSMo  
gkmlUGMUrxWYLeuSh7rhpnDgAhGCBcDdAjRYHwbYhihQiH1NHBYwBkeisDoK  
F3OpFiu6uyy6USzaLyAFihSAoxR4O11RFnQUAAHgx1jpAwEwUtHtgzXa58WT  
Rjn6OyatI0qJgorhBV5oAivYAl2wBTyCaDZlgXygRgyQFs5IFUdoBEN5AmPc  
tDxR0YWkgA0gAaeAgR9zhadwGZGAB334INq7so5oYlmwwm3whlnZgl/Biyh4  
XcuBAVtACKpYADRgAKpIAKM+rL+ohSeIP564KLM8gvcMh3KwB6M8pxMqW6Oc  
A0Vx/7+uJg2bCYEQkkX5/AGgUAzL2tCDuCwfYIAYGLIEgBgyyNaMkoALTi+O  
GMLsBw91kDSGEuMqQUaa2oeMNCJaMtNqE2b6osxjA1rYITfRIGbmjceuKm/  
EAFYuEDjOEmF8oErikTK4E3TCQ4YrNjJgo2G6cldQGTc2Ckf4A88KCI7aEtk  
clKnBIMJiCRmegkjiEWUusjU9CELziViZggfIcOM1QPEvKksBEJGsMPbwM4d  
wEKAmxBj6yhWKI0rUO0Mqbebs4eDDcKaQYQOYQjka0/XABarB+eRc9MIAZv  
QDv8LCVgWYwD/aEOiNu1YB8EFYIs6YX6tSiz1Buj44JVsP+DljiEaYhIIVkF  
IMBqA+jPQVgLIcZSbgBGthFCWi/dvqliwOLhyGLsuBEMvABioABaFgBNDAG  
n+XZIS2BTJCJFymBjFiv96LRK7pcY/nRvSOXMbIVG4eCJIAWfgyU0OVHJAVI  
e4SVdHQVMLpnCqAwCmABb5ARxZHS9tKIKooUHYeBQO3GbKyUfDCX1xOYQeQG  
A8iARAokdWCfPuUBJelG7uWGxUoGNpiVi8AyM20KZE6X2LMCXqAAeAjJ5Oix  
mluKlJmRC4AYIYDve7kXZbyADog1pf4B3/oMvcTqSWhwVFgF2CKNm3mbjREa  
88Pq9zwCrYCHxg/o0ilfxqyVkt/NYW4i7emgR/wwmVcRIQDDFvQCHosFBNh  
ALocjlm4LBrzNB9AGxrgj7EBOCeQ63ILDluggqcYpYZxg6jYNbucAcCIWODg  
AcgKjlv4AqWqkAiZkC+QjdiAKTIMHWGLASpUOuVsjARYAxU0g6T0tbFpQJ5U  
m0tdQykvVj5kd4jLkGVyrCtkBTPQqOm0Tlc7bQykt23DTufelsfxEFbAPycw  
Awo591vADT4EndyKEHOQhiphbxG4hwJAgz1Zgb2IOWOUCCSsqOWLcggFdAAO4  
b6jdk8VA0A6YyRDZH/hM9mg+ghOSRTtAhaLkgv1BrlnmBiBgsxVYA6QPGTL4  
PidYAIWw/0MnKMVb8nl2YU/s2h8+GMSyGhgBhQEW6ANuNN3IFZcSwDtisVGB  
pjttZLxduRTC26+PnhR0bAl2Cl1fQSRI6YMHU/xw3LtwMQZzhgFjiAJbIAUY  
2NtdaRZr6SIWUAceCINawAt1aAJ9QFK5J6RytKNGUxGXefNM4sgSWB/cwhOW  
cRkGooAoULBa0dOOuAAIEsU/eYLDy6QPyxaveYqeUMCOINPQ7yYFNAYRIsIW  
uy5Vmmq24AMtYQvPWNZLjMoTOglu0IIJtlwSb9A/bCctkUizrlqE6KZSwiim  
Tp8DRRO3Qli/iMu4NAG0AlgdFzAQ3GAQw4UFKI7M6IAGRgEJCf98TGA1g4aP

UQkSdDAzYUICCVck+KDBipUeN24uoECRAMUJFD5e1kqgx4wZPTG+nPiyI0yY  
E2HMfTFH9EuMK06cJpxQhaVE7hkYaCyg1FQDCfcOKEhwYkePRP0NCQDywwN  
Gtom3ADT9gbcEDOcePTB6sqVHTFwMWLEF6gsWUJfGVIZtQoN1+GhmGk9wvS  
KyrdlHFCOcaFKzHcjJLAdSkry5uRqGQVQ+8tN1dGXfnCSBqSQQVI/ahNanYB  
NNAKzM4Ag8ft3jAYFDA48k5ASyM8ebN4DkDEQmEiKgu4gcQEXNmWBjH4BCf  
I0fW2JmDKoSWDjNmK0mFaYYBA0K4rBn/LwJlhw5ryHQ4BG3FBU+QssAKNIjX  
wQ9PoMDASwXyQYMIh9SGwg+D7DDIIGjEYIw3fSxiRSMliNgliSWwYAWKVsjh  
iBx9QCHHijA6AgWNjaBYAohQ2KgjGyjuCEUTAgSZCYqLnGhFJn24aIWIJTSS  
CY1RNGLFjSiyglEttsCQZQEwDGLMBkZa4QiKjrBQAgUtCfEDBRswwUYfjpCZ  
Tz4oZIKCK2HwIAQDPCywABWNCNCIKwH+YAAKQgjxBKPy1eIDChdEUQIGIF6w  
Aw88FFBLLSh0eQEFVzppIhtPsFSpjSgEAMPFDzBwwUMoFATKbagoNoCaAxC  
Cho7wIDGCvaA/9efCLXQ0MERWoSASS92HFHEGogcUdsPDEDDR37/JUDGs9wA  
UcSzHdQiRAfV0XDRDx0kUOC6tTFaw0Ro/IIGr6Oom9cJGGyAAQkbnMASRsfK  
SxgDX80wSlp6rPvuDBOskOtqN7HylRt60GCsBDEsolcEEujh0gwIxDOT40x  
AlVjQDGSIBs+OOGDa2EEFhCQ+FyAgmXdnzFxHrcwAoY7MFywwxm+ECGGXBN  
YAYeYQnBmRkzTPxFM83s0AxPJ2gtmNZ6OWEYa26Y0xdWjHxxGV4xbMYVaZvt  
IFnHinHIRtyhUYZEUY5Jhtdit0TxdwbbZEBKcLxVG59CBfywgghPFP8QRQEU  
RKFIPiyQyGgBPDBQBz8crYuCBGqAO0e5DNzGgAFFaLE6fdFVd0h2TqjBwCpg  
kLHdEfwhK94hA0ZBQaxrFMHeEdww0AEPp/CwAhnPkqFNgoNEQRDwP0iaCS+8  
XAAPBeqMaCKRZl6ZooxyQEHmlDamiGKU7U9ZZSMuQpEJ/WVaMf/8T1ouAP9B  
NiHH+KCwJCMZwxhRglE8YJAPepTAEBqApV+V5wCrAAFT8iE5VjAgiwIEls  
cAQvMqGO47SEgyWRgKYoYDkYXMAVshLCBXhgAB4kigG14AI32kQFFhQgDBTo  
EjcU9TgVogkGOzhGCIKAEB64ok2Fu0BNasL/qXEtKAMYgMifEAYNgcBgARlg  
AxjJAK90IURRc5jA6rSACUSEoBczGA8NtIDGDmgjAXwgAyZC8AhwHWEoc5gP  
F4rQgbQMkj135IM2jIUTCcgGBldAgwRW0AEyrACSMKAADDJJBUxewGNHclke  
anKCAIwgBiHRgw9wYrQJIGYUQvmKE77isZDRYAFGXIBeCEOSE7phBjEIAy4W  
0xhcBCWYkFFJRIwTGFzsYAeeCYNVSLMYvUIAlb0EAyxgAQa3JMYNNCCDG4BC  
BaN8ISyeOc3aJOMGRuAMFzeDjDOZcpqrIS0o6tzB2TbTjXK6oRucuUEsTxJO  
XGyGBi/DSWuuMBRG/9zNDSzcZBRqI8TcTNUleg/hTNDKwhUP9wFgJMEB1OPgE  
GHDwb7zgH6Fi+APF1UY+doROLY7AhRloYQs8mB6rRLCGOThrDT+QTn7WUI4t  
GKAWZHDWHLhwhPsYSI0JEMFNMRDJIxhAPCFjgIT6BFIEgWcFCWBAJiiwgUxo  
NAYwaAQvLkeitbIACglQ4PqsslGxsWhFVgghG/Calre2r0YIMAIK3gol/KWI  
fjSin+X6SqX7wYhKchrTlrxhC19IYhHGACuQ0tomL610AaEiQVT+RYUSZKIJ  
M4ICmjKRKW6ooToLahUFrkiB1bYkAeMSQi2GUQQDDCUGUSUI1Cwp1rg8v93  
GljCNiiQAI70oQSZckUJnqCOAlBhC7athRrAUQtudCozzYAcKez4g0zOhhT3  
IAMfpLMACDEACLitzxwmgQkwIAIRvUijGrgQAlggLWpHmMQEQjABZq3iCLWo  
BBfKha008IE9h+jAChJZk5AsoEsXusLxKLMABDTnAjA4QSZhiAFWcIFBEvGB  
OShAhZagAC0GxYkQvsYKGGKiDAgkYSdNW4AMtmCFSZm3m2zi2SAmMBWcrl8HW  
3MnOnnCsV095Dd1C8sulKOYpzzsLApzgFppikwYxSMwXR4FPd9oiDC1bgBvU  
5jGFxYAVWXPnVnwigcQA2WqyWepPRoGEzfBkJ5v/UZtKbvDPu2jtBBIw6LnM  
ABmeBCbPbzuJPawwKBb8kA/34AMfnpCBNhWnWB0AwiFEECpvJOIM+Rgr/ViY  
HdQhahoiA4NGPeDB4FRBB2wZT4cEd0nFOsHC8Autl4Aiy04bgKluOHqfDrr  
9ihVU800wHPyM4cQbKI2luDDIQ7BgCdsgVfaGAUMkIQcDWRAb4QAJTUpw51  
MOI+VCqf+GbUh0QkgkpQqPeHqpTY+YXQCic6UV8FMKMkueit7WtClprQhB7R  
yHwvohGZFMekgmCggxuQk/ggSi8YHPeHwNsBPLCbgBIs9366zgBvthCpmHC3  
FgVAuQDGDW0eNAGfItjB/68TYEJuoGC0rliQ8VxSzeIRIBP5SIGTWOAKHoSB  
e7FdRAE2shGvcornPpCAh70BUQvBgDkGQAODWFEAjklkw9jtALgwMeAJrKcX  
qLBtw4ow0wUQZ3h5DAHeH6GFI2B6BdBIS0kKtIJKDplGeiBOAUhAAiC/zQ18

sKWl0fCFC2gJ51IHnRtQ8GE9MSAsHFMbCsJAHQ57uJnmuEUM0ECRBDxBKEsm  
QZar2Rk8RGrzgWmMLEiAC8WX8gtXwFIUdkD2pORIZGH4CSMW7wQxggETNxDw  
BMAgZjSw3Ql62QGSNYMXnl/CaBvxWJovlJVmtOY0wazy23xyNcj8noXQPMEv  
4f8fBtJ0wyasQlJe8MKKq39l8uzE5w5M1tU0wyiwQmRIOQUADRAwyHIQ+Rs  
WgE8gQEsTnYIAQ88gTd0UBQkyQEVwAZ12qsID7RFR20wjldhy0bYEgt4Axuw  
wKugwA9xShEUgXWwotTetgU4dCBksADTkoHr8SYUFHQcQjjsGaYkwLGswcMs  
wEp9Bx9IABrgBmLV2GLdTxO0m76Zj/mQSWM1Vr3d22Lp275FCZQYVpTwTx/U  
zyKUwMEJQMlpnMLRiPz0QZEsgpwQyRqeSL3FWwkg0CXpj7+dCAUYwlapgwDw  
Qgr0yAaUQAEwSAK8AyZpTrHQAAWECBXEUKblynRIgOP/KloQDIMBRAGhFAoN  
UYcIDMIFoAKGEIm/NYKKZUqmdB3wuAlMoIAXdV4t3AYp+AoGkAIFLADFOdIC  
XMET/E4mKcRXgdR0CMHoRAgDrlcerJQIYMRFJMAPzMAclMlq5NEqTAJDalEY  
xZp0wMvg/VRarEAtoIVnXVGIvQ0NQJKvGFEX0YuOScRXRZ34ORMrhETHNB0K  
nMsN0N7PJUbTSYR6GA1mCIYs2AIG7MC/4FICLMVAnQAV7Iss7J5gAMUO7N5T  
7IRoABIQAIvSfAFC8AwsTEAHaMHZgcERvCMazAAXkMFHhBNS/EsYnlah+QDd  
eJNIIIE0/F+hAdOiVY1qDKVv/6jNL52N+gIExVQMCKAGErBCYqCEZ0jkCWCN  
YszTVcZAHxwQDKwUNARHB2VCAhoABV0bh5ECAIlaW0ZOFJACD2zUc0zQc3zV  
T0UH4/CBV9liFHiDkTbiqyhIEOmHdtgB89AgEKyBsq1AtolA7mjBdZDSF3hR  
ucBOFDzB8fCBEAxeBRXHFkDDINBQApxA4NzJkaQliexVlJjPmDRcw9XbvC2J  
GI7h/AzcGQoJuhFJCSwCidBl/ygcG8ShAMlhxH2IA5HJacrVluSDiVzRZTUC  
GyTRm8iBCxYADKJVCpQJFGDmRoxULYrAYJJUH54ApmQOg8zKE3DDdHBDJUBK  
m8DDiv8FEQ7aUqnomuWEyA+hAM8Bhzo0EUJ4mELUgpaA5pVEAeUZEKXtgBsU  
lwYsJyZtGHF0lLqowQSgl4SQixd5yggMghqEDIXOAbioUTEuwSTxxwpEUgJ0  
huB51XW0mBlgnYdhQOR4kbx0jJf8SUIkxbFU0J94xTxITGKI2QV4UwKogQ/o  
BCR1TAzlhA+wR0b8i2CQAEHYAnnGAAPYhQ+EwWLGdJLBmVCCAdzYguLJgpYS  
hkosBhWk6QmsBhKQpwTMwFqk0gRo05zCyxEMQwhsk2koqFN8aUygUgzcwI0s  
mjQQEzGRaU/4ntUsmk/gwt7A09mohmoMaQykBArcwk1GhqD/dczXOIFmxABW  
nE1rNEMMZMIVLYCEQIM8aEkmbEMj/l6rQJsIYKhnaZpxQQRuoA50FACxNeIK  
UMcKMADjiMAKVMvDREEG0M+duEoGclOzFoEaRMMfhEDuzMF42AFK+gCr/RQf  
zMEaMMAWFACIKQqTHoKA0NxzDAJ0yNCrPcE2/JwPZUAjWA6O0Mhuqo8VdiGZ  
9IEWmg+9DScdus++0Y9t+g8ayk/96FuQ6AMcKpySCJCL0KHEGScr7maYfMhy  
+lsUXBaKSKfCUdoMaYorNKgcpMAiYCZ0FKNL5EcHSABvsBAJaMpqMQA3/FwC  
gAM4CAEe0MAFtgPBGG4rMATxNZy/4gliIglorTEBRQak5QKBZACHfDAQ6zA  
DlgrDMSAlvRIrIrlBJtkCnfxQLS7lhq2LEHxTQ7ToD6AFtcyHeEwAF3DBR2iB  
PWActt3RUz1MgcALIRVrtTSpkPoKbzjTunRMl0RExwRMrc002UnADkSiHrDG  
JIXquhje1QGeHqxXGGXEBUQFLmAAVVBBGHSDEyWAGEzsCTBCa/SFyXBNmoIW  
aAHFLx0FVkaFFZAFK9ANYhhUKpmBSm5ThcJknt7ABGAdHmTeUAiFF2HdmjYT  
X5hNzGhNpiqUPNwMMQkF1lxBVLrB9foEUmSMP23G8d3kVySGQTGFZXzq2UHT  
DDCDAAJOCv/wwNgjwCklf0koM1Vx2wQBwL+DhBGx7q8xErNhuNAR20N3rEI  
q7wsQKtMynAsnRA4awdMAA7gACpMQi8o5nhEgwHEmkugAR/UxxGowa6wAAKS  
gqz4WoUta+b8mrpoCkuwSZtgAHMiHWq6m45EiYvEyMMBrGMlwmzO5mGV4Vvh  
Jv8UcR+gYY3QyEkiHL0hHL09sYtgHlvEVZ3E22M9lo8UcSMw0Ww9BwxkgDf8  
TlxGxwysVHTgILYopghEgQC8CiZyw039zs3Wwk/VwgzMDjfM6rFwGAXAQyZN  
llhsAAUsKQ/8yyVRwM91Es2KQIUvGk8YwxUkkARAWDPBgJiRwhX/TM8ldVGk  
+AmD1MIKJIsWkKgdPEKBTQANHsEjWOtMua3d3UC2sctK3QYaoIBXLczYTpJe  
kmczdUwtQFgFhZgtACEfBF4IEUjLimknjQSYGkOI+sBMICF33MDV8W42gYFX  
al3iHUOaXsDIHhrbXcDxFZrIFVpgkMA5H0Nj3AIGqENVUEHMCAYuJO8okIEs  
nQROBFiegsFHsB3cuu0E+AAe4EGbLQ1b6IEtQIZfyAI+tcBNZGpDB4VQNAaQ  
0Qs++V7x4YVKXIA5TLTa6MWc0YUZXMreoNMvDYU+NILgbEE0kAILCAAzNIld



8o83BAcQ/ICEZE4ERs5xKER0dlCwlt4C/wRII9lSdFQHEtZGhuiK5PAQA7AK  
zspHJRwADhzAL4TDEfTCBMyBAVij4azAPXSAohQBH/wAh3gDyslQB2hel6hD  
IzgON8wgHxDODqABKfxNbG3AmezLWFFJlhziYEWsXZ3Wv8bJ/fhw++RI+8yv  
W/FPwhWxABDD/M7vYOlbyicPrzhEz/xjHT2jKTIY2HsmMjJdJrJk7hVJjQC  
PLjC0sEAojCA5GTAFWwwdhFHfPyAUK1Bgc3AArDANsBK5rwEGHvDnsBDoqwB  
bqmBoIRHdLQK011SpZRAdAIPBVAUqAztkuLBntBeEFKA1u2GCIDRIKCAXVuU  
BJACv1xSAQy14f/QnU7ZASb81y8gwhxUgoAlwARsAiYI0nuogR2zRVimSwls  
wK5sAYb874A/B6blhwREAXnW8g4I6+A5QTecgDEYka8cguj5wOAtgAgcGs7g  
XDMBBUKgACp51SRpEyy0WIDBgj182y+5kyyQDEmIQAzQwEeMjEMmmeLxxTmT  
wDH4izIAU1RQgTujMzqfgBe9mEmcqLbywBpgwnyFQAQTDYWCwT8PNArgAdux  
hU5W2Z0p6Jl+gTE1g0PhWWP4BF5grzY0E16Q36MhQR/fgjkgZQwgvAvQNGc  
xojFktVs7IA0wjs0QgRGA6nVjxWwAf0gYAakJ/4eh6bxgLYeUELsgHD/ZY6m  
9lmmOI5LKM5RP9VKLc7mjCADCA8QQNsTtAEi4AAiLMMPoAIYHMAapFe3MeYH  
bw4ZyNddS3YjFqF3ZNQPeMN6A8EckEGXdN0ImUiTMOepNZCT+MiLbKfcsQiL  
FFwmiM+1D+f57Jv/BEIjOzZkH+xwdva2J8LDRjFi+Rto289eLUk+VHeJPMGT  
kCWIm+evolG2gcvwdMAMveUgNlWwAPUBYMlyREOvhgEGIFEJUA3PEEt2FAt  
GEAeT8AjmKV11kKmoIBZ8gBJxValKegS9Zz3iCZuadcKiOsJ2I18oIErkIIE  
oEUCkJQRGYNDUkgBwAMGtEmbtATjQeEAYle/5XCI/zCBNgBlmBCNpKBEICD  
GmQTK+xA4F4BLjRDvKQODSFjLRwCvBSLGyXx0xgQoCOXggELcSonoMRDRRM  
ZwzjKFCAT2zJDpBpOUkROmrD0MxAL7TFs9CNGTgBBmAkmfqAfws0MvgA0/mZ  
1UATBsCDD+VLMi5NvFLBuTDU+CMUDSTTNAazB8asHgEXOCB8M7AlwvjR8Ak  
XAI0QE8AHRBCN2CqLTQDGkgG3tC577WS9bk53TTTTF8TS730BEkCURDgBEqiM  
1pgNpg45CoxCRiCjD2gDCsCDUARGCfyWAsOKKGYCuiEJBrGEfp56AVyBq3Si  
Uf3AFmzUdfiacF2g5v8wwGbbqKhMK6+IkQFxyZxImgGLagRZMQ3EAARAARKkQ  
j9YcwRRiU4gQc4QAAbLmx5YOBQ/RWDFoxaEEDNDQkCBhhR4D5xi12LmSRQY  
3qJQKMgiBIZFi0rUtGKIEZScAvok6gNFjiM5coAGhWLFkZVMQH/+hPIUKpQm  
UZ82EXBVAFUofbg+7SMgUdGkSH86yiSAmAArJW4K/ZklblxHLGjWdEWBSHgY  
JYxRoAATQ4ZMKIFIENJhhpkEK0R0WPHjh5DGa4AcDDFhQocMT9Q1aoQBBY8n  
QoSglC2EW2oJKAowqIXCAloVtRYUKLHBZiY2KSi4UqeOB7xa3EzXSIAABhX/  
DAAtQoEHDpxwNPk5gVldRoIBsCReeuloR2sAPBgu4/VjTYVgRNT00YPbhQw8f  
Gke4qOkggnmYHSdgUDCGwZgoMIDhAh54YI65BBJATAsfFjihwAQkYICBFcgg  
Qxs0FhhkgQV+mKGGXGci4CI0VFvjoigUugMGWEzAYEAYJ9KAhgVokWIABFHww  
o5YiyEAhAR/cuACXHfy6llaPLgjDHHPCCOOWW8LA5YsTrDRHyBhwkeUYWU4g  
gYQNjhEzHzBjSFKCUSTYrzonRvFBxCNmmFOIHxAzA48bMJvghhskiMEHJ97j  
M4FuujHnBFyu2OGLLxhp9lSdYkCjmVGusHSHjxrd/2GUG8xwlvYeOFUzhjC  
oOKERiHc4YoTwuhGDwmckNEJM8xg5YpmYmAEI0Zawq6AFV1ioRFiW1pgBz3u  
MwBJGDlo4AcRaJiAjCioOUSEQyCjULTWFhCBgR8MKMAABhb8YYUEfiiAgvAS  
OOIIEeZoow0t7BiEBxS4WwOVR4A4BJpHHjngMi2GOWIObdco6lgOyOhAGzNo  
eIIUUNQY4LHnDNglAJluSADv6K4DQO2SqBpEst0UtmrrYR6Kiik1ko5k0zk  
aMopqrLSWQCrsMKqCa6c6imsp8ZyxOirflrLkZeJjguum9aiQJ0LqLjAxZow  
wK0Eqhvp2hUezPWBBmiLEP9BhBUYKHeNluhr4xeFJjCgJQqiKMBABniopRYD  
SuMGNRTEzVfvknzYbgOuG7GCDSsowEAd3vBOQI/X9HYFAwollAcNaAahAY1F  
YeCwgA5XuPGJEgTdwu9efCbBjKXxEdO2ZIAAV4CkBJDTJm8EiCMOB58cW+  
oojiAiQ7BBIF2RKgYc5RYrgiBhgWwGOxBHzXRjoavOeDjCPIMEObE53zHvQd  
LsBAuRcpQCFW5183B34fOijixg4SiAGJUVDaOgxWoslAZUEFdcBDFq4ggXKS  
swM3fAQeZiLBMclUp2UiQQtOkECHqi+E9hiB2iAk5wmEAlwTAB9NHiPE2bA  
pwn/wCMMaYqVD1ihh/+5okVV2k8YGBGUjVjB5y71CjQkKkv5OpzeMLDapLU  
DBB+oTqbwhoaAPinj0jgPTRwAvUgIYmQsasAKbFbzXTCgidgBwUiEAIDzkgB

bzwhWhOxwxHOQ4ZyaOsQBtjCFsolAiDoMTytkwAN0sYAaPEAWgxw2Brmslpf  
HEQbvufBB45QijUcYgtAqMQkwiGnGcDiCJM4xDTK1Ys1aEMlJcDD35AMQPw  
QAi1oNEC0CABdRmgQzHAQEtY0Ae2oKwET7IJCVLQNKAKpWhjoQtbyAgFuOQs  
KIOhis9+9jOfCG0rOIOCMbtCjExYYSYIEArSmhKXpd0E/ybqcF9NntClx5Xg  
a+ow2W8M8AR7FiAGaDuM2vzlgCLMYA6IWMga1PUEHlznAhP6wWueoC++9Y1c  
hVubnWqxxgq3Jc3FsYENNUvA1CmRHQdxwTRisdoHauCIIEILBDjqUAD7g6ESP  
0ZyERPADfbWmFusRGwMewgceuKIEg0DDIfjQgdKYCgaZG1A+dhmFHbD0QFj0  
AQoWsAlahG8FkopUpIRItvuATxsPk0AHoOOR0NFgFEXtyKLYhwESZO4CO2ge  
kLjBg26lrRbt0UONOiABN2hRDztAFQI4KAtZTPAYGDgG5IAVVxrEigIbAJNi  
EzumCr7VSkmKQaK+sKIFQK8DIf/43QzA4CmLDCJTZOACHvBwAXiwSgldccKs  
PHgCJ57JFri4wBEXxapRjIIVliriEQdpqxuwohux3QFqexuDI0Klek8qIzr0  
4ANt+ICIMWjGdikwml+GsSXHM1ZLxuVHNbZTKWcUQdsaxgf5zABhdAQCJRtm  
By0s4lwU+laF1IUbxxogLXQUJgRYmgQJS4E2kRSgCOBoCBDCAQSEhmAQsIMwF  
E60AfB14pVV9MBy0AcFt48oAA3xXTxiwIAr/MUY+pMYWla3FxUgbiiP6QJSm  
KeWbmfjK06AJFWk+ZSfWTARYhmzOrsQIKjTeZjiZ2bSgJGURSAMKUnLsmUwQ  
y57qMID/X3qTAV4I0zdPICkGGrENFjRPpAnIVy2EsAZutAET8XVbXwfxRQO8  
MgHcKABqaqFIdf1gATUqgQFEUIQVUaEmxGSDbtjAC3W4gl1RaGgt1tChFcWo  
N4j+T7C+1YFa9PdCNAjPINaVAHCvzTrRIEa1CCnVB64qnxlwAKSWh0SBlip  
AYKBPkjaozKsIF0JEEKQlp05pyapqsk7UHNQUIsOdGABPFhV9jqgxStgwBa2  
2Brx4BEh+6EADzwSgRpyigcytBRONHjqLxZoWbeyD1UsDXRIAmgmCIZQsm99  
kS2oAANXOZcGq5TArVAgqA7zQU9m+JMbzCAi7I4igObYTwwy/yWBRaEqUYxo  
EaOuQL117wCIX2CFG74QA4/EKmJOGlkbRIFdMyygVNMj+ZP0c8U0zcAJkLpC  
pGCwjQz8PBp2ewLLMuCZnz/hzisiwABBE0E4oGIMUT1jvetucx0MUZAJamIN5  
2jYBMLAiA1soQLogozZA0+4xP+CGASayCjDYw8Ck2Als+cCNSjCYD5X5RRtC  
EI5JaCEEvWCN9dBWqGgJQcFH8EFBtl6b8KRtAaQ4XopZsAErsODya5Hal532  
k6FsUyjfLxXoKYVKOXmMkfv2VWaYJXWE/maPSHyUYy5TStsLWVfuTE4ee8y  
ldVsKZkzowRMoAl+fgochF4isFYZcgv+iA7URndmAOgxaT9gYgBtFEMIRLkPH  
OcxBBEVMiQRGvBHarF0yPkhAbBQ0AQwY4BBFSIBrXckWxqVAERulAEmrA7g1  
mCiE5GEUCAQXBUQE7iZc+GAGNsROflcMvlcHSCFaxMVcGEKPYqkIQgAT7EFF  
oOV5gqg6AOQ/NgADUKw6kMV0XEqWhO15+gPbMIA/PopVWguRkuQj1CBQ8EA5  
wkA2+GYFRsENWAQX8oEEz4SkeCAB4Msi+KaF9GA9DucKqssHyEACmuELbAFM  
TuCwDmuBTkBS5Mp7hORUSEAW3GpM8o0EmMqtM0LkQV0VqCWVOQKbGIHOSAH  
8CCwYiBiaED/G7ThCnDBCJNjDkNos2QBFxiBERLIqRbRVZLjShaAepoBJAoj  
YkbBT6QfW4AD2hrpVwkL35rNQbpPbKNUZ6KBezGbn7Oi+ApE/ziwO6MAbYA  
0NRID8KIXOKI1RYD6aJFwdRgAQ5hEAptAhpmPoyKzdhl0kzKkH7A1EpibaCB  
MWajCGpBBMqj0GJp7bBjBSYBYSSPAu4JMnhA7aZxjdCGQgyJjxqDD3bgeIgh  
mGomBVzMMxYHKpyCKIDCM6LCJ7JJKkzP9FYPaHomH/NRZ7ZCmHjv8sxCaqwg  
BW6ilVlmcW6iKh7nRWAA0q4DOfztTOCDG2CgaRLBKjCHAgKNAUij/wjWYBLK  
pZ7QQBusAwZehxqHDQX0xqBMgwtMbQVIYw0MANjskAaqg10agRcYEifswi/2  
pq5yJAYKgCVIwRYu7QJihTFqKjtuZBCISgtQSRtEIDwo5AcqQURowKhE4BcE  
KgSOYAEEBAYObBBglHRYagcypwSqAw0GYRDkAdiYA0gWA9rW5zbUsADkgaXS  
JTTEjQQww5gAVI2QGyc47ecw4kG5EwypXlkiQs6zNnqQ4Xw8E26yIKugAoO  
kQdvlQakBC8+olQWgwZUXGq4hAuJR982IBne7QRMBQ1mS03MAR6mp+U8Agjl  
YAK2Y5AkABYsggvPxep8yA2aZwNkgUneiv8CnMsNFoXiToAKvIQEsCaunqqW  
hKR/nlB7RKgWNjHneGiA2OceBtG5/kR4tJAEhK8mokD4ioXoMiFzsOPOCiAD  
Dixl8CCMKAAy1Eg9PELuwoPphu0QCmAQGEbBOuJ+1KA++mYLTvEl18XswsgA  
MCJtnO0YH+J+4mVcYKak5uAI9DM0PAY7FoDpyLGhAhTQtoUPJKAAogDF8sEW  
aolmlCIndlQncqJIDHlrBvlpngkqrsIfp2n1qEktFpJIngIsGFSZqOybmJQh



XUzzpMYRvmZkMsCMMkDSsGNkWMAV+EYNnGURTo8YuoYCIeEagFeLmldvBQG  
OKM3xKZNFwQmeeD/cQ7E00jj2TqA6RqjA/SmQ/YilhMNnoavAHDnRFdEP68j  
QNTBpiQI2PgAXwogU67yCGiAGR9DBPjgMYAgLKmRG0phDn4hM44jFVMsCIBr  
BaBhB/pDJXYNL0sEDblj2NLIRHbgL7GNFKxnEARjRlpDBBJADbQAE4pzUfDG  
OZrVOWQVL2DADXaAAWgEB7GoA+wDCMzliiRIDzTESlwIVkCIVFZEUmwwSG4o  
L45za8CEBBOHeGAggBYAuGpID1zBt2bAB0DpEVCoQD7iPVhhsy4AC88Ea5xr  
B8BkgNhwPxzICfQAVKwEF6wEaxiFOeDQuXZEYmipFgLFCaQEF3Bhswjk/1xb  
ZUI6KAzAxJsE4GsaYehSogTqBhwvIAp+Dglr4RtHskLQxjhEAENLghuAIAEG  
IUPX8lcvIFwKbrjUAFyMwUsRqQDKw5AywBXQJVxKQjISrNXihV3aJTKEAJGM  
Y22eYE4j42y4QSUCjSvVBVowoh1pNB8SjWZ81DNs4vTCoiu6YimiwikiLtGeO  
tEiV1PUA92+blimWAikOd0pvghes1CZygij8SUE4xsVFTkowGVTQw0KAMVY  
QB02IBM+oz/UDvHOptJQAAbms3HVIUdEQF9whCa7ZuwUZEEoSTKAANjGpZbQ  
AAZGpi4wLxOID5YYIAa+EVOhKFZhgguWAJdMTf8E7EECWglXcyQWd8cipAW+  
4kU8mkcN5qAUmHYGamryAkRBF+AQYnVGQQi1imgQoAV2gQ3YbCQmjKE6TmBD  
TGcFqCpHgsSEMKE5pBAnGMB5CG20EAeoPUCroCqJECW+kyRGi5calmqGhgO  
/W1AIIV5KCCBCGRJnoqD9CAGroaC1Gmy4JV4iMc6vcNNOg4FngqLaIDCIGwC  
QGWB3YAVPiVWt8ZFYGBTJgtr8sliYWB69MAJNtkBSiuKM6WVsALi+t2EmBW  
2PODrgAJpnWIGGVaUYXmDATzBWAbGuEsWPZZbPHowLRm7SlkMPeLorZCVgA7  
xCY2gKA0fmAtYcAYWID/BcLjB5guPaTlwDA006KtdLY3QLkBXEeqi0NBmBUQj  
X1ijdlZAJerkB/jg6oDapsiPGf3slXqXI8xiEUhgEeiiLRpBct8qDDDgxawg  
b9/ix/4xSVFPKwCS9V4ZK/zRHskoE8yCF9iAKhbycU+PGfpA+PxCTF/CoL6x  
nbYhNagRO56ACmL1L3wuCkwjNYoAFnmglj2BAyzNcxljYQObwCNQtJmUPFm  
NeB4CzoEqEogHzAvHy7ANAxJP03wg/hjpWJglxYebQ5BfzqkNrr2l+wSGijZ  
fL2nFvRzctSGaeGlbDlqQD6KQ+Dwgl1BHX71OqxH1h6jqiqAXIYgCqAAxUYy  
/wKZESROZ3kSoBfsYQaqQ31CaEOEikM+loRWowCyrQC64XmqLVAm4lanahAu  
wEbUwFbWhEDGigH2Cn7UDXMqEI9tkHoi6EUs6EUkpaTYTR2eebNirjuqtC4  
4Cb/50SoAwa6SgK+gOR2SDkex0x28ApAZQckZEXOBBBJYKXC4FJWka6+YOBu  
QEjSx3cwlDsK4Qs0VR2wBy+wBxiwEnC4LB61xu2ASu2wYuwgxSi7ufCqLlp  
4HW2gZnc6YzUDtgQ6Z+JA3D0bBBIIQO8IQPyhdTk+CRnYA1AIRQMYIzZb1sA  
DJGzRY30aY2o12N+gBQ0SQi0xb0molw6IFpqKs9KJ/8GeAkmZiIFWCAPkolF  
olAXFoctoYt3gJqigYqcolXsqKaXo+8reL0pGKWxe9n1BuWiYJln2Jv95Zv  
h3JxGRcuWBYmBMOL3clAgoX6ckT7ho34rAO8MkBFaEcNwmVdgCoKigU4Znl8  
AMeoEOm78kZsuGGR7ekuYsMAKoYHSOAIvowFMACv1IVmvWhNdc160ABIPG0i  
7oNcvleO93SAoZEPwmEaJDBdnOWiGUCkStJHlu94KODALuAHSmQQIuvAiJwj  
GmMxTKdh1gAGLk9zrgPPSgTDNKRCjqAXrqCmr4OWhMqAO8Q5ToeB7ZjED2QK  
Z8BGEsAMHjYGaE1G1AB6Xg7/WRETXGYNi+JSHShIFki24gBbOSQR37YzDGzh  
Sa4TVZwLBhMqVqeqkLhgAmiNagZBAIghU4JETQYpVqkFP+DhS17kGPhDUtq6  
iGzBgg/rRVwFdN5ECDviU8wBDYDwCqCEVShOtF5wh3qoSRgBTHo3tdECvjej  
nlJiM8iFFD5qI4puRxshA+6sj6DWnvlINdaoLkmB6EqH1AptBrhACzzpBwbh  
bjlgGn7NK8VudhiDD8TDkkkjbpwpgCw4Mclbhkvj528XuEDaVK+9sxHagc0nA  
URZBDmrGLDDvutlCKIXvJpiBGLrbuyNyJ1Svml7ZKr5M4gNSSX8GyKACLrai  
mYI0/3AFgBeWYnGwW2W+4jP6jcw8w6DCJgwoQAAophKEQA3w4Fcq5kZIIRPC  
BnB6FjJsqD+MoQQKwBViA1zUSA3+Bz/xBpEo5KfICaUawThmck1D3BgWIR8Q  
zDE0Z0WeIBNAVyWgJZNFoGEcg0IIgnlslQOA+znARwvlBY7qcj8pIF22YF/k  
pQNIbZvodwvgkNYwIFYlz9L5+bQWIAwWphlepOQKxNdi7Tm+ZQXE5wlmixRc  
epCEijki+ANTLaxcAQVo4DAKwwBwDIN2wAIY60ImYDy+4yP2p3k46K0uKDvj  
KrYGoRsuAHPAJBmQ06QmjhEK6EwaRbIKAFQu4Kok5gbA4P+v42rWOUVWxBJt  
9ABig8eHAKiyEkuLO4tVlotAMAAQV90LLd0HnAsXhloMNstSqockOqvKWlr4

vyCAXIUkzOEwVuCwzoiXaoadnuDZAaJABIIZeBR4sqXADxE/eFDIFIVFhgI8  
Gli4alDCEwM8eKDgYYBbLS4dOqW5uSbcmiNa1ogAsmbGyh8FYCg8dFEEgx8/  
GBQ49MOkAREdRKwQscCAEBQGCjCoJULIj6EGfjwRsvLQmhUFKLDAGCGKMQz5  
MJzAtciRIUxQBDThJYCXFTZQ2DSyYqUtlERQ+uxNJCbwEyh6CbcV4LdPHwF9  
EzkG7Day4MPMAgsgxqwwYb59Hjv/dku4kWFHcgxDEX06dN5MJVhEoQC7gCuO  
BXY8rDi0FJedxhQucCiRAooCQopv+d2wVsgCFDcWONohgYgCpKLYLNCUImwK  
1ktUZLAIaQoYLBaIYAhtSvuGGC4QRHAVUTYUZwycPjkAoMEZDqsWMHdDqQs  
oNAKP/DBxw5DrUDKBYO85IRTCSDo3w4XjLLDDzAYsEAHP1AAAwzGcMfcD2jI  
M8h+fCSQABoLDLJAjGi4uEIHZJCxggRo9LTCEbBMMIgtGFywwwI7oLCDBDSg  
AQM0M/JBwwIXuMfDDhbCANYFCXSghgQSwHDBAiiY0QEMtVQZA4sJSLACAxJo  
gyUJYG1w/4FHDMBHgToYbLAnWO1ZicYOMIShJwm2wEAFPCckSYMPpNsgRy0o  
KJmkHhKQMUMtRn5BQRiBhhFDkqOooQc8JFBBBQanLvDIDifYYouhYZwwaAG2  
LORqFyRYKYGFo7DigwROjHKCWSccK8sJySpLQRNUHMtcg9w10khrGWxkQBRR  
JHSQAVXtZfsmFzxRn1MXJWDAE67wwE1I3hrAgBBqHEEGH2uUM8kkLK3RwSFa  
HelfgTDwdBEDBvt00xEe1igCDSssEC83CjHQgRAibBFNB1v0VPERa+C0ADzG  
GPMVBcaU4MgiJWTCQI5tvaUPG3PxchpeLyeSWCJNSEYYY4btjP8YYTk/ZhnQ  
IlgAGdlCVBaYaXz9RbTPJeDViCOOmGYyanetlUkjELnSVbfMRbGNQUMNw8V/  
GDDHAAUZRFRAUtxUgu5wGwnBQy1PUIQdDxetUYt/BdTHEQPpMvBEIxoV0IhT  
KKyZglgqW+ENeq65BhsMKDAQhskYuF3AR09k0EgUC231X1cCQgyeRYcMzKJ1  
XMW2xRNb8tEBDXpovsDDFkVpa3Uj8j0IDKR4IIDvMY4S4wI0SDDKDLDMQMMo  
K8AAHh+9wDJKM7YQ2fwCozxfwCBorIAGGRLEEAMK8IEJwwYlwJBALc/32tEC  
eNBQgKRWsjipBLCKBnECizqKJEA8qYNfBGVJhpzaY4sXWSkGD8QSqqiQJEFN  
gHofWdOR0iS9CYznAp26wg7CAB80jAoPYUhVsU41KVeFyFC2+MIXFtUelu3A  
FjsgQagWEKpRmMEJwnJDqk5FghM0a4mqAssSAwIAOw==

---=\_linux460feb78--

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [gene lennon](#) on Sun, 01 Apr 2007 17:44:43 GMT  
[View Forum Message](#) <> [Reply to Message](#)

I have posted about his in the past. This is the 800lb gorilla in the room.

<http://environment.newscientist.com/article/mg18725124.500.html>

Unfortunately, most forecasts do not take the methane leaching properly into account, so the acceleration will probably be faster than most climatologists currently predict.

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS  
Posted by [Deej \[4\]](#) on Sun, 01 Apr 2007 18:01:35 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Don,

To follow up on my last post in regards to deforestation, prior to the last 10 years or so, I spent a goodly part of my life in southern Mexico. I have watched as the area has changed from what was once a paradise to an environmental trainwreck. This happened just between 1970 and 1995.

<http://www.planeta.com/ecotravel/mexico/mxforest.html>

I haven't been back down to that part of the world since 96 but I still have quite a few friends there and we stay in touch on a regular basis. If you are interested and want the scoop on what is happening, this is a good source of info.

<http://www.realoaxaca.com/>

Stan seems to lean a bit to the left on many things, but he's that way for a reason and he's a good and honest person. His monthly newsletter is usually consistent with what I have seen and experienced there for many decades, which is a real eye opener for those of us up here north of the Rio Grande who may care to question why things down there affect what's happening up here.

Regards,

Deej

"DJ" <www.aarrrrggghh!!!.com> wrote in message news:460febb3\$1@linux...  
>  
> "Don Nafe" <dnafe@magma.ca> wrote in message news:460ef748\$1@linux...  
>>I understand what you're saying DJ and I'm in no way saying that humans  
>>aren't contributing to greenhouse gases..my only problem is that  
>>greenhouse gases make up such a small (almost insignificant) portion of  
>>our atmosphere that I personally find it hard to believe that Global  
>>Warming; if there is such a thing happening, is being driven by human  
>>activity  
>>  
>> DOn  
>  
> One thing to think about here Don.....deforestation.....the  
> planet used to be covered with plants that utilized CO2. CO2 may  
> constitute only a small portion of our atmosphere, but it's a critical  
> part of the atmosphere. When you talk about \*almost insignificant\* things,  
> a 3 degree F rise in global temperature may seem insignificant in and of  
> itself, and the inundation of 60 miles of continental coastline that this  
> could create may seem insignificant when you consider that 60 miles is

> insignificant when you're talking about a continent that is over 3000  
> miles across, but also consider the fact that a huge portion of the  
> earth's population lives within that 60 miles and since water tends to  
> adhere to the laws of gravity, depending on the topo in these various  
> areas, this 60 miles is gonna just be a drainage area for waterflow  
> seeking the lowest point which means you'd best start buying beachfront  
> real estate on the eastern edge of the Mojave and the Appalatiens.  
>  
> A little goes a long way when you start jacking around with the life  
> support system of a living organism and the earth is a living organism.  
> We're just sorta' starting to behave like a malignancy within that  
> organism. A \*almost insignificant\* tumor can kill you. Suppose someone  
> strapped a respirator on you and started mixing in elevated levels of CO2  
> at higher temperatures than 98.6 degrees, thus altering the basic  
> composition of the gases you needed to survive and warming your body to  
> the point that you basically were running a fever 24/7, and you had to  
> breathe this to the exclusion of anything else. Depending on how  
> drastically the CO2 was increased, you might survive and eventually adapt,  
> but you would initially be weakened by the imbalance of the toxic gas and  
> the fever and the this weakening would likely hamper your capability to  
> evolve an adaptation to the new environment. Now add that to the fact that  
> as you are weakening, the CO2 levels and temperature in your environment  
> are being constantly elevated.  
>  
> Maybe a good thin (not for us, but for everything but us) is that our  
> population density is getting to the point that we are fast becoming a  
> petri dish for some new bugs out there that could be considered by some  
> to be the earth's immune system. when the :\*bird flu" white cells start  
> travelling through the earth's aerial circulatory system that Boeing,  
> Lockheed, Airbus, et al has so conveniently provided it, all but the  
> \*resistant strains\* may get whacked.  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one-sided polemic

Posted by [Jamie K](#) on Sun, 01 Apr 2007 18:04:01 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

That's a good description of the straw man argument being put out there,  
Don. It sounds plausible but it's a diversion.

Here's why:

The earth's climate HAS changed dramatically over time. No one is  
claiming otherwise.

There are and have been a variety of causes. No one is claiming otherwise.

The science shows this clearly.

Setting up a straw man that no one is advocating and knocking it down decisively may seem like a winning argument, but it's a fake argument from the getgo.

So OK, right now, as in the past, we know that there are many drivers of climate. Everyone agrees on this point.

However, today, unlike in the past, industrialized humans have joined the list. The data shows human contributions to greenhouse gases.

The reason carbon in the atmosphere is important is that it sticks around and accumulates for long periods of time. Unlike, for example, water vapor which comes and goes on a quick schedule with evaporation and precipitation.

Scientists have spent a long time and a lot of effort looking at all the major suspects and so far they are not enough to account for the recent warming trend. Whereas atmospheric carbon from human causes does account for it.

How can what may seem like a relatively small amount of CO<sub>2</sub> cause an effect in a larger system?

As a mental example, consider a physical system that is in balance on a pivot point. Even if it's a very massive system, a small amount of force on one side or the other of the pivot point can change the balance.

The result of all our research so far gives us reasonable insights into what may be going on in the atmosphere and how our activities may be a significant cause for the changes we are now measuring.

That knowledge offers us the chance and the responsibility to future generations to choose how we want to affect our home planet over time.

We can be informed and proactive or we can sit in willful confusion and let the situation deteriorate.

Our choice.

Cheers,

-Jamie

[www.JamieKrutz.com](http://www.JamieKrutz.com)



Don Nafe wrote:

> Just so I've got this straight...according to the scientific data I am to  
> believe that the smallest portion of our atmosphere (less than 3%) is in  
> charge of our planet's temperature and that the sun, the oceans and cosmic  
> triggers have little or no effect on our climate...and that the warming and  
> cooling trends of the previous 600 million years on the earth don't matter  
> because humans weren't a factor in those changes.

>

> Ok got it

>

> Don

>

>

> "Jamie K" <Meta@Dimensional.com> wrote in message news:460edf8a\$1@linux...

>> It's a viewpoint that ignores the main body of peer-reviewed scientific  
>> evidence for the sake of sensationalism. It was done that way deliberately  
>> by the producers, with no attempt at an objective look at the actual  
>> scientific evidence.

>>

>> Google it to check out the story behind it. Fair and balanced it ain't.

>>

>> I do like the breathless announcer, fast cuts and dramatic music. It's  
>> always fun to see a one-sided polemic that ironically accuses others of  
>> being one-sided. I doubt anyone here is gullible enough to take it as an  
>> objective authority.

>>

>> Cheers,

>> -Jamie

>> www.JamieKruz.com

>>

>>

>>

>> Bill Lorentzen wrote:

>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>

>>>

>>> It's a British documentary showing another viewpoint about global warming  
>>> and CO2. It's a viewpoint that is different from that of the man who  
>>> invented the internet...

>

>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one sided polemic BS

Posted by [Don Nafe](#) on Sun, 01 Apr 2007 18:27:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"DJ" <[www.aarrrrggghhh!!!.com](http://www.aarrrrggghhh!!!.com)> wrote in message news:460febb3\$1@linux...

>  
> "Don Nafe" <dnafe@magma.ca> wrote in message news:460ef748\$1@linux...  
>>I understand what you're saying DJ and I'm in no way saying that humans  
>>aren't contributing to greenhouse gases..my only problem is that  
>>greenhouse gases make up such a small (almost insignificant) portion of  
>>our atmosphere that I personally find it hard to believe that Global  
>>Warming; if there is such a thing happening, is being driven by human  
>>activity  
>>  
>> DOn

>  
> One thing to think about here Don.....deforestation.....the  
> planet used to be covered with plants that utilized CO2. CO2 may  
> constitute only a small portion of our atmosphere, but it's a critical  
> part of the atmosphere. When you talk about \*almost insignificant\* things,  
> a 3 degree F rise in global temperature may seem insignificant in and of  
> itself, and the inundation of 60 miles of continental coastline that this  
> could create may seem insignificant when you consider that 60 miles is  
> insignificant when you're talking about a continent that is over 3000  
> miles across, but also consider the fact that a huge portion of the  
> earth's population lives within that 60 miles and since water tends to  
> adhere to the laws of gravity, depending on the topo in these various  
> areas, this 60 miles is gonna just be a drainage area for waterflow  
> seeking the lowest point which means you'd best start buying beachfront  
> real estate on the eastern edge of the Mojave and the Appalatiens.

Only one problem DeeJ nobody's talking 3 degrees..it's all about 1/2 a  
degree over a hundred years, which could be a naturally occurring event yet  
no one wants to admit the possibility because well, Global Warming is a big  
business now

As for deforestation being a problem I agree but here in Canada most of our  
logging companies have bought into the "replant what they harvest" mind set  
(although I could be wrong) so we're doing our part at least from what I've  
read (and yes there are exceptions so please nobody jump down my throat)

>  
> A little goes a long way when you start jacking around with the life  
> support system of a living organism and the earth is a living organism.  
> We're just sorta' starting to behave like a malignancy within that  
> organism. A \*almost insignificant\* tumor can kill you. Suppose someone  
> strapped a respirator on you and started mixing in elevated levels of CO2  
> at higher temperatures than 98.6 degrees, thus altering the basic  
> composition of the gases you needed to survive and warming your body to  
> the point that you basically were running a fever 24/7, and you had to  
> breathe this to the exclusion of anything else. Depending on how  
> drastically the CO2 was increased, you might survive and eventually adapt,

> but you would initially be weakened by the imbalance of the toxic gas and  
> the fever and the this weakening would likely hamper your capability to  
> evolve an adaptation to the new environment. Now add that to the fact that  
> as you are weakening, the CO2 levels and temperature in your environment  
> are being constantly elevated.

Ya lost me on that one...but it's going to take a heck of a lot more than  
1/2 a degree change to drastically alter the chemical make up of our  
atmosphere as history has demonstrated over the millenia. This is not to say  
that we aren't facing some realities regarding Oil, Pollution, Water etc  
that have to be addressed and personally I think that we can do a much  
better job managing our resources and the environment and I for one do my  
part not to mention hound my various levels of government and business to  
get on board and start thinking long term Afterall I have kids and I'd like  
give them a planet in better shape than it is now.

>  
> Maybe a good thin (not for us, but for everything but us) is that our  
> population density is getting to the point that we are fast becoming a  
> petrii dish for some new bugs out there that could be considered by some  
> to be the earth's immune system. when the :\*bird flu" white cells start  
> travelling through the earth's aerial circulatory system that Boeing,  
> Lockheed, Airbus, et al has so conveniently provided it, all but the  
> \*resistant strains\* may get whacked.

Agreed...now where were we? oh yea. CO2

Is CO2 the cause of Global Warming...that's the multi billion dollar  
question.

Personally I don't think so...but then again WTF do I know

>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one-sided polemic

Posted by [Don Nafe](#) on Sun, 01 Apr 2007 19:00:43 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

First off Gene, that is not CO2 I'm looking at...it is a myriad of shit we  
humans spew into the atmosphere and yes CO2 is one of those ingrediants.

Can we do something about this overall pollution, damn right we can and we

have the technology now to make a significant impact.

What we need is the political will and the almighty consumer to voice their opinion by demanding more from our governments and corporations as well as from ourselves.

Reduce, reuse and recycle are starting points, developing real alternatives for our energy needs is another starting point, motivating industry to clean up their act is another starting point...the list goes on and on but the bottom line is something can be done.

Jamie...I am not arguing that man is not contributing to the problem, obviously we are, but you are basing everything on a 100 year period that is granted "out of the ordinary" and insist it is solely man's contribution to greenhouse gases that are the cause. I just think there's more here than man's handiwork at work.

Any thoughts on that 11 year cycle of sunspot activity we just came out of...interesting that the two years of back to back El Nino/ El Nina coincided almost perfectly with the peak in sun spot activity between 1997 and 2002...could be a coincidence who am I to say.

And although I sit squarely in the nay sayers camp I still think we as a species had better smarten up pretty damn quick because global warming is only one of many things we're going to have to deal with

"Jamie K" <Meta@Dimensional.com> wrote in message news:460ff509\$1@linux...

>

> That's a good description of the straw man argument being put out there,  
> Don. It sounds plausible but it's a diversion.

>

> Here's why:

>

> The earth's climate HAS changed dramatically over time. No one is claiming  
> otherwise.

>

> There are and have been a variety of causes. No one is claiming otherwise.

>

> The science shows this clearly.

>

> Setting up a straw man that no one is advocating and knocking it down  
> decisively may seem like a winning argument, but it's a fake argument from  
> the getgo.

>

> So OK, right now, as in the past, we know that there are many drivers of

> climate. Everyone agrees on this point.  
>  
> However, today, unlike in the past, industrialized humans have joined the  
> list. The data shows human contributions to greenhouse gases.  
>  
> The reason carbon in the atmosphere is important is that it sticks around  
> and accumulates for long periods of time. Unlike, for example, water vapor  
> which comes and goes on a quick schedule with evaporation and  
> precipitation.  
>  
> Scientists have spent a long time and a lot of effort looking at all the  
> major suspects and so far they are not enough to account for the recent  
> warming trend. Whereas atmospheric carbon from human causes does account  
> for it.  
>  
> How can what may seem like a relatively small amount of CO2 cause an  
> effect in a larger system?  
>  
> As a mental example, consider a physical system that is in balance on a  
> pivot point. Even if it's a very massive system, a small amount of force  
> on one side or the other of the pivot point can change the balance.  
>  
> The result of all our research so far gives us reasonable insights into  
> what may be going on in the atmosphere and how our activities may be a  
> significant cause for the changes we are now measuring.  
>  
> That knowledge offers us the chance and the responsibility to future  
> generations to choose how we want to affect our home planet over time.  
>  
> We can be informed and proactive or we can sit in willful confusion and  
> let the situation deteriorate.  
>  
> Our choice.  
>  
> Cheers,  
> -Jamie  
> [www.JamieKrutz.com](http://www.JamieKrutz.com)  
>  
>  
>  
> Don Nafe wrote:  
>> Just so I've got this straight...according to the scientific data I am to  
>> believe that the smallest portion of our atmosphere (less than 3%) is in  
>> charge of our planet's temperature and that the sun, the oceans and  
>> cosmic triggers have little or no effect on our climate...and that the  
>> warming and cooling trends of the previous 600 million years on the earth  
>> don't matter because humans weren't a factor in those changes.  
>>



>> Ok got it  
>>  
>> Don  
>>  
>>  
>> "Jamie K" <Meta@Dimensional.com> wrote in message  
>> news:460edf8a\$1@linux...  
>>> It's a viewpoint that ignores the main body of peer-reviewed scientific  
>>> evidence for the sake of sensationalism. It was done that way  
>>> deliberately by the producers, with no attempt at an objective look at  
>>> the actual scientific evidence.  
>>>  
>>> Google it to check out the story behind it. Fair and balanced it ain't.  
>>>  
>>> I do like the breathless announcer, fast cuts and dramatic music. It's  
>>> always fun to see a one-sided polemic that ironically accuses others of  
>>> being one-sided. I doubt anyone here is gullible enough to take it as an  
>>> objective authority.  
>>>  
>>> Cheers,  
>>> -Jamie  
>>> www.JamieKruz.com  
>>>  
>>>  
>>>  
>>> Bill Lorentzen wrote:  
>>>> [http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related& search=](http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=)  
>>>>  
>>>> It's a British documentary showing another viewpoint about global  
>>>> warming and CO2. It's a viewpoint that is different from that of the  
>>>> man who invented the internet...  
>>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [rick](#) on Sun, 01 Apr 2007 19:22:45 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

once that surfaces from the ocean floors we're effed.

On 2 Apr 2007 03:44:43 +1000, "Gene Lennon"  
<glennon@NOSPmyrealbox.com> wrote:

>  
> I have posted about his in the past. This is the 800lb gorilla in the room.  
>  
> <http://environment.newscientist.com/article/mg18725124.500.html>  
>

>Unfortunately, most forecasts do not take the methane leaching properly into  
>account, so the acceleration will probably be faster than most climatologists  
>currently predict.

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
deliberately one-sided polemic

Posted by [Jamie K](#) on Sun, 01 Apr 2007 19:40:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hey Don, we agree that there is more than human effects at work. The key point is that human causes could be adding to other causes to tip the balance.

Solar causes are exceedingly important to climate. But the measured data shows that changes in the Sun's output are not the culprit for the current warming:

<http://gristmill.grist.org/story/2006/12/28/090/30666>

"According to PMOD at the World Radiation Center there has been no increase in solar irradiance since at least 1978, when satellite observations began. This means that for the last thirty years, while the temperature has been rising fastest, the sun has not changed."

Based on current research, climate scientists are concerned with climate changes that could be occurring due to human contributed greenhouse gases. The changes could possibly accelerate due to other carbon sources thawing and adding to the problem. We would be wise to pay attention.

Smaller actions now may be more effective than larger actions later.

I agree that something can be done, and your solutions are a good place to start.

Cheers,  
-Jamie  
[www.JamieKruz.com](http://www.JamieKruz.com)

PS.

I don't know about sunspot data that may correspond with el nino/nina (ocean-based weather driving events), but if so it would be an interesting area for research, to see if there is a mechanism to ascribe any sort of cause/effect relationship.

Don Nafe wrote:

> First off Gene, that is not CO2 I'm looking at...it is a myriad of shit we  
> humans spew into the atmosphere and yes CO2 is one of those ingredients.

>  
> Can we do something about this overall pollution, damn right we can and we  
> have the technology now to make a significant impact.  
>  
> What we need is the political will and the almighty consumer to voice their  
> opinion by demanding more from our governments and corporations as well as  
> from ourselves.  
>  
> Reduce, reuse and recycle are starting points, developing real alternatives  
> for our energy needs is another starting point, motivating industry to clean  
> up their act is another starting point...the list goes on and on but the  
> bottom line is something can be done.  
>  
>  
> Jamie...I am not arguing that man is not contributing to the problem,  
> obviously we are, but you are basing everything on a 100 year period that is  
> granted "out of the ordinary" and insist it is solely man's contribution to  
> greenhouse gases that are the cause. I just think there's more here than  
> man's handiwork at work.  
>  
> Any thoughts on that 11 year cycle of sunspot activity we just came out  
> of...interesting that the two years of back to back El Nino/ El Nina  
> coincided almost perfectly with the peak in sun spot activity between 1997  
> and 2002...could be a coincidence who am I to say.  
>  
> And although I sit squarely in the nay sayers camp I still think we as a  
> species had better smarten up pretty damn quick because global warming is  
> only one of many things we're going to have to deal with  
>  
>  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:460ff509\$1@linux...  
>> That's a good description of the straw man argument being put out there,  
>> Don. It sounds plausible but it's a diversion.  
>>  
>> Here's why:  
>>  
>> The earth's climate HAS changed dramatically over time. No one is claiming  
>> otherwise.  
>>  
>> There are and have been a variety of causes. No one is claiming otherwise.  
>>  
>> The science shows this clearly.  
>>  
>> Setting up a straw man that no one is advocating and knocking it down  
>> decisively may seem like a winning argument, but it's a fake argument from  
>> the getgo.  
>>

>> So OK, right now, as in the past, we know that there are many drivers of  
>> climate. Everyone agrees on this point.  
>>  
>> However, today, unlike in the past, industrialized humans have joined the  
>> list. The data shows human contributions to greenhouse gases.  
>>  
>> The reason carbon in the atmosphere is important is that it sticks around  
>> and accumulates for long periods of time. Unlike, for example, water vapor  
>> which comes and goes on a quick schedule with evaporation and  
>> precipitation.  
>>  
>> Scientists have spent a long time and a lot of effort looking at all the  
>> major suspects and so far they are not enough to account for the recent  
>> warming trend. Whereas atmospheric carbon from human causes does account  
>> for it.  
>>  
>> How can what may seem like a relatively small amount of CO2 cause an  
>> effect in a larger system?  
>>  
>> As a mental example, consider a physical system that is in balance on a  
>> pivot point. Even if it's a very massive system, a small amount of force  
>> on one side or the other of the pivot point can change the balance.  
>>  
>> The result of all our research so far gives us reasonable insights into  
>> what may be going on in the atmosphere and how our activities may be a  
>> significant cause for the changes we are now measuring.  
>>  
>> That knowledge offers us the chance and the responsibility to future  
>> generations to choose how we want to affect our home planet over time.  
>>  
>> We can be informed and proactive or we can sit in willful confusion and  
>> let the situation deteriorate.  
>>  
>> Our choice.  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>  
>>  
>>  
>> Don Nafe wrote:  
>>> Just so I've got this straight...according to the scientific data I am to  
>>> believe that the smallest portion of our atmosphere (less than 3%) is in  
>>> charge of our planet's temperature and that the sun, the oceans and  
>>> cosmic triggers have little or no effect on our climate...and that the  
>>> warming and cooling trends of the previous 600 million years on the earth  
>>> don't matter because humans weren't a factor in those changes.

>>>  
>>> Ok got it  
>>>  
>>> Don  
>>>  
>>>  
>>> "Jamie K" <Meta@Dimensional.com> wrote in message  
>>> news:460edf8a\$1@linux...  
>>>> It's a viewpoint that ignores the main body of peer-reviewed scientific  
>>>> evidence for the sake of sensationalism. It was done that way  
>>>> deliberately by the producers, with no attempt at an objective look at  
>>>> the actual scientific evidence.  
>>>>  
>>>> Google it to check out the story behind it. Fair and balanced it ain't.  
>>>>  
>>>> I do like the breathless announcer, fast cuts and dramatic music. It's  
>>>> always fun to see a one-sided polemic that ironically accuses others of  
>>>> being one-sided. I doubt anyone here is gullible enough to take it as an  
>>>> objective authority.  
>>>>  
>>>> Cheers,  
>>>> -Jamie  
>>>> www.JamieKruz.com  
>>>>  
>>>>  
>>>>  
>>>> Bill Lorentzen wrote:  
>>>>> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>>>>>  
>>>>> It's a British documentary showing another viewpoint about global  
>>>>> warming and CO2. It's a viewpoint that is different from that of the  
>>>>> man who invented the internet...  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Don Nafe](#) on Sun, 01 Apr 2007 20:36:38 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"Jamie K" <Meta@Dimensional.com> wrote in message news:460fec68\$1@linux...

> Bill Lorentzen wrote:

>> Unfortunately I don't know enough science to analyze the whole scene and  
>> draw my own "scientific" conclusions. That said, I do find one specific  
>> datum from the movie compelling: that historically the CO2 has risen  
>> AFTER the warming. If this is indeed true, then one would have to be a  
>> fool to believe that increased CO2 emissions will greatly cause global  
>> warming. Surely we are all smart enough to acknowledge that.  
>>



>> A key question is: historically, which came first, the warming or the CO2  
>> increase? Who can unequivocally determine that?  
>  
> Bill, you can read a good explanation here:  
>  
> <http://gristmill.grist.org/story/2006/12/22/231145/76>  
>  
> In short, they can be interrelated, and the biggest driver in the end is  
> the CO2. IOW, it fits into the picture we're getting, that humans are now  
> contributing to the current climate change.  
>  
> If you can't draw your own scientific conclusions, it may make some sense  
> to listen to the conclusions that actual climate scientists are drawing.  
>  
> Cheers,  
> -Jamie  
> [www.JamieKrutz.com](http://www.JamieKrutz.com)  
>

We have two experts on climate here in Ottawa and both disagree vehemently that CO2 is the major cause of the warming trend we are presently experiencing. In fact one of them is a climate modelling expert and you should hear him rail against the models that are being used by the Global Warmists.

All I can say Jamie is we will have to agree to disagree but I'm keeping an open mind albeit a skeptical one.

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Bill Lorentzen](#) on Sun, 01 Apr 2007 22:55:54 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Jamie,

I read the article, and it indicated that CO2 did not trigger the warming, but that it was part of the after/contributing effects.

I wish we would all work on positive actions we can take to handle the situation instead of what we must give up and stop doing and make amends for. People like to DO things not give up things. They like to CREATE, not reduce, and frankly it's better for them. I would much rather go on an exercise program than a low calory diet. Telling a person to stop doing something is much less effective than showing them how to do something different and better (and hopefully more fun).

Let's work on creative ways to make positive changes in our world. One of the articles posted above pointed out that we will have more food production

as an effect of global warming. Well that's a good thing, and we can capitalize on it by helping to ameliorate famine, but that's never mentioned by the blamers and takers-away.

Speaking very honestly, I would be OK with having fewer polar bears if the millions of starving people on Earth could eat a healthy diet. But ideally we can find solutions that don't harm anything, but actually SOLVE the problem, not just reduce all the bad things we humans are doing to the poor pitiful world. Let's get really smart and handle the hell out of it instead of tiptoeing around being all careful and apologetic. Let's have some fun!

Bill L

"Jamie K" <Meta@Dimensional.com> wrote in message news:460fec68\$1@linux...

> Bill Lorentzen wrote:

>> Unfortunately I don't know enough science to analyze the whole scene and

>> draw my own "scientific" conclusions. That said, I do find one specific

>> datum from the movie compelling: that historically the CO2 has risen

>> AFTER the warming. If this is indeed true, then one would have to be a

>> fool to believe that increased CO2 emissions will greatly cause global

>> warming. Surely we are all smart enough to acknowledge that.

>>

>> A key question is: historically, which came first, the warming or the CO2

>> increase? Who can unequivocally determine that?

>

> Bill, you can read a good explanation here:

>

> <http://gristmill.grist.org/story/2006/12/22/231145/76>

>

> In short, they can be interrelated, and the biggest driver in the end is

> the CO2. IOW, it fits into the picture we're getting, that humans are now

> contributing to the current climate change.

>

> If you can't draw your own scientific conclusions, it may make some sense

> to listen to the conclusions that actual climate scientists are drawing.

>

> Cheers,

> -Jamie

> [www.JamieKrutz.com](http://www.JamieKrutz.com)

>

>

---

Subject: Re: OT - Global warming - scientists, schmientists . . .

Posted by [Sarah](#) on Sun, 01 Apr 2007 23:54:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

OK,

Here's a question . . . let's say for a second there really is a scientific debate about the threat of global warming . . . what is wrong with "Better safe than sorry?" Doesn't such common sense apply to the health of the biosphere?

I hate to use the smoking analogy, but that's only because I didn't think of it first. :) I think it's a good analogy. The idea that inhaling tobacco smoke is unhealthy was around long before scientists in the '60s apparently convinced the surgeon general (or somebody) that "smoking may be hazardous to your health." Yeah, just maybe. My father quit immediately when the warnings became official. My mother said, "Oh, nonsense," and died of lung cancer in the late '70s. As a nurse on a medical unit, I see the damage from smoking every day, yet there are still lots of people smoking, and even people who deny the health hazards!

Smokers seem to come in two broad categories . . . those who say, "I know I should quit, but I'm not ready," and those who say, "Ah, it's bullshit. My grandpa smoked and lived to be 99!"

Now scientists have put a big sticker across petroleum, gas, and coal, "Warning: burning of fossil fuels may be hazardous to life on earth." As with cigarette smoking, some of us want to quit right away -- why take chances? Others seem to be saying, well, maybe this is a problem, but I'm not ready to quit. Others deny the warnings altogether and light up another SUV.

The problem with the smoking analogy is that we can't just send the global warming deniers outside, like we do with smokers. Do we really want to wait and see if the predicted disasters happen and then go, "Damn, I guess we should've done more sooner!" ? I like Portland as it is, and I don't like the idea of it being on a little island off the coast of Oregon. If there's even a chance that Al Gore's Inconvenience is True, I say let's change things aggressively NOW.

But come on . . . there's way more than a chance. Isn't this really about resistance to change?

I have several friends who still smoke, including a couple of nurses. None of these people denies the risks, but I really think underneath it all they just don't give a crap. "Hey, everybody dies of something."

Is that what's really going on with the global warming "debate"? Is it really just a battle between those who give a crap and those who don't? I realize even planets don't last forever, but I think this one has a few good millenia left in it if we can get it to lay off the cigarettes. :)

Sarah

"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...  
> <http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=>  
>  
> It's a British documentary showing another viewpoint about global warming  
> and CO2. It's a viewpoint that is different from that of the man who  
> invented the internet...  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [DC](#) on Mon, 02 Apr 2007 00:04:45 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"Gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>"The worst stuff is not going to happen because we can't be that stupid,"  
>said Harvard University oceanographer James McCarthy.  
>  
>This is the optimistic opinion of a person who does not frequent the Paris  
>users group.  
>  
>Gene :-{

I do not believe anyone here is stupid.

DC

---

Subject: Re: OT - Global warming - scientists, schmientists . . .  
Posted by [DC](#) on Mon, 02 Apr 2007 00:06:40 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

They give a pretty compelling response to this in the movie.

Take a look.

DC

"Sarah" <sarahjane@sarahtonin.com> wrote:

>OK,  
>  
> Here's a question . . . let's say for a second there really is a  
>scientific debate about the threat of global warming . . . what is wrong

>with "Better safe than sorry?" Doesn't such common sense apply to the  
>health of the biosphere?  
>  
> I hate to use the smoking analogy, but that's only because I didn't  
  
>think of it first. :) I think it's a good analogy. The idea that inhaling  
  
>tobacco smoke is unhealthy was around long before scientists in the '60s  
  
>apparently convinced the surgeon general (or somebody) that "smoking may  
be  
>hazardous to your health." Yeah, just maybe. My father quit immediately  
  
>when the warnings became official. My mother said, "Oh, nonsense," and  
died  
>of lung cancer in the late '70s. As a nurse on a medical unit, I see the  
  
>damage from smoking every day, yet there are still lots of people smoking,  
  
>and even people who deny the health hazards!  
>  
> Smokers seem to come in two broad categories . . . those who say, "I  
  
>know I should quit, but I'm not ready," and those who say, "Ah, it's  
>bullshit. My grandpa smoked and lived to be 99!"  
>  
> Now scientists have put a big sticker across petroleum, gas, and coal,  
  
>"Warning: burning of fossil fuels may be hazardous to life on earth." As  
  
>with cigarette smoking, some of us want to quit right away -- why take  
>chances? Others seem to be saying, well, maybe this is a problem, but I'm  
  
>not ready to quit. Others deny the warnings altogether and light up another  
  
>SUV.  
>  
> The problem with the smoking analogy is that we can't just send the  
  
>global warming deniers outside, like we do with smokers. Do we really want  
  
>to wait and see if the predicted disasters happen and then go, "Damn, I  
  
>guess we should've done more sooner!" ? I like Portland as it is, and I  
  
>don't like the idea of it being on a little island off the coast of Oregon.



>If there's even a chance that Al Gore's Inconvenience is True, I say let's

>change things aggressively NOW.

>

> But come on . . . there's way more than a chance. Isn't this really

>about resistance to change?

>

> I have several friends who still smoke, including a couple of nurses.

>None of these people denies the risks, but I really think underneath it all

>they just don't give a crap. "Hey, everybody dies of something."

>

> Is that what's really going on with the global warming "debate"? Is it

>really just a battle between those who give a crap and those who don't?

|

>realize even planets don't last forever, but I think this one has a few good

>millenia left in it if we can get it to lay off the cigarettes. :)

>

>Sarah

>

>

>"Bill Lorentzen" <bill@lorentzen.ws> wrote in message news:460ec4f9@linux...

>> <http://www.youtube.com/watch?v=u6lPHmJWmDk&mode=related&search=>

>>

>> It's a British documentary showing another viewpoint about global warming

>> and CO2. It's a viewpoint that is different from that of the man who

>> invented the internet...

>>

>

>

---

Subject: Re: OT - Global warming - scientists, schmientists . . .

Posted by [Sarah](#) on Mon, 02 Apr 2007 00:47:51 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hey, cowboy :)

I guess you missed my post above. I watched the movie, and I addressed that response in my first post above. As you may notice, I found his implication regarding the Third World somewhat less than compelling.

S

"DC" <dc@spammersinthetroposphere.com> wrote in message  
news:46104910\$1@linux...

>

> They give a pretty compelling response to this in the movie.

>

> Take a look.

>

> DC

>

>

> "Sarah" <sarahjane@sarahtonin.com> wrote:

>>OK,

>>

>> Here's a question . . . let's say for a second there really is a

>>scientific debate about the threat of global warming . . . what is wrong

>

>>with "Better safe than sorry?" Doesn't such common sense apply to the

>>health of the biosphere?

>>

>> I hate to use the smoking analogy, but that's only because I didn't

>

>>think of it first. :) I think it's a good analogy. The idea that

>>inhaling

>

>>tobacco smoke is unhealthy was around long before scientists in the '60s

>

>>apparently convinced the surgeon general (or somebody) that "smoking may

> be

>>hazardous to your health." Yeah, just maybe. My father quit immediately

>

>>when the warnings became official. My mother said, "Oh, nonsense," and

> died

>>of lung cancer in the late '70s. As a nurse on a medical unit, I see the

>

>>damage from smoking every day, yet there are still lots of people smoking,

>

>>and even people who deny the health hazards!

>>

>> Smokers seem to come in two broad categories . . . those who say, "I

>

>>know I should quit, but I'm not ready," and those who say, "Ah, it's

>>bullshit. My grandpa smoked and lived to be 99!"

>>

>> Now scientists have put a big sticker across petroleum, gas, and coal,

>

>>"Warning: burning of fossil fuels may be hazardous to life on earth." As

>  
>>with cigarette smoking, some of us want to quit right away -- why take  
>>chances? Others seem to be saying, well, maybe this is a problem, but I'm  
>  
>>not ready to quit. Others deny the warnings altogether and light up  
>>another  
>  
>>SUV.  
>>  
>> The problem with the smoking analogy is that we can't just send the  
>  
>>global warming deniers outside, like we do with smokers. Do we really  
>>want  
>  
>>to wait and see if the predicted disasters happen and then go, "Damn, I  
>  
>>guess we should've done more sooner!" ? I like Portland as it is, and I  
>  
>>don't like the idea of it being on a little island off the coast of  
>>Oregon.  
>  
>>If there's even a chance that Al Gore's Inconvenience is True, I say let's  
>  
>>change things aggressively NOW.  
>>  
>> But come on . . . there's way more than a chance. Isn't this really  
>  
>>about resistance to change?  
>>  
>> I have several friends who still smoke, including a couple of nurses.  
>  
>>None of these people denies the risks, but I really think underneath it  
> all  
>>they just don't give a crap. "Hey, everybody dies of something."  
>>  
>> Is that what's really going on with the global warming "debate"? Is  
> it  
>>really just a battle between those who give a crap and those who don't?  
> I  
>>realize even planets don't last forever, but I think this one has a few  
> good  
>>millenia left in it if we can get it to lay off the cigarettes. :)  
>>  
>>Sarah  
>>  
>>  
>>"Bill Lorentzen" <bill@lorentzen.ws> wrote in message  
>>news:460ec4f9@linux...

>>> [http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related& search=](http://www.youtube.com/watch?v=u6IPHmJWmDk&mode=related&search=)  
>>>  
>>> It's a British documentary showing another viewpoint about global  
>>> warming  
>  
>>> and CO2. It's a viewpoint that is different from that of the man who  
>>> invented the internet...  
>>>  
>>  
>>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [gene lennon](#) on Mon, 02 Apr 2007 00:48:49 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

"DC" <[dc@spammersinthetoposphere.org](mailto:dc@spammersinthetoposphere.org)> wrote:  
>  
>I do not believe anyone here is stupid.  
>  
>DC

Neither do I, but even extremely intelligent people can do very dumb things. If we all sit back and wait till its too late, we will have acted very stupid, regardless of how intelligent we are. There are many intelligent members of our government who are acting quite stupid on a daily basis. Being intelligent and acting intelligent are quite different things.

Everyone is entitled to his or her opinion, but we have only one Earth. If a few very vocal skeptics succeed in delaying the commitment needed to change the direction the environment is heading, those people will have done serious harm to the majority of people on the planet, even if that was not their intention.

If the environmental and scientific communities are right and the naysayers are wrong, the naysayers are fucking up my one-and-only World and I feel I should have the right to fight for it.

A major problem continues to be the millions that have been spent on the disinformation campaign. The energy industry (with the help of our government) has done this to protect its astronomical profits and many conservative organizations and individuals have gotten on-board because of long time alignments with big business. But today we must look beyond historic political alignments and find a solution for the planet. That is why many are coming around. The science is clear. The world will soon be divided into those who are willing to make personal sacrifices for the future of the planet and those who will continue to go for everything they can personally amass. A third group, which

I am a member of, will be willing to fight to save what s left. And the fight starts with speaking out!

Gene

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 01:35:28 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Thanks for keeping an open mind, Don. If you can point me to the papers published by the two scientists you mention, I'll check 'em out. I keep an open mind, too.

But given what's at stake, I don't want to pussyfoot around when so much evidence and so many experts point to problems building up.

Especially when smaller actions taken now could give us a much, much better chance of preserving a livable climate, longer term, than even incredibly difficult, economy crashing cold turkey attempts would achieve if we sit around and wait until later.

Also, considering that mitigating green house gas emissions has other positive benefits in addressing other problems, we may as well get started. Many of the global warming solutions will also help us deal with peak oil, local pollution problems and national security risks, to name a few.

We have a huge responsibility to do the right thing. Let's not wait until it's too late. The benefits of starting now are compelling. The risks of waiting are high, and growing higher the longer we wait.

Cheers,  
-Jamie  
[www.JamieKruz.com](http://www.JamieKruz.com)

Don Nafe wrote:

> "Jamie K" <[Meta@Dimensional.com](mailto:Meta@Dimensional.com)> wrote in message [news:460fec68\\$1@linux...](mailto:news:460fec68$1@linux...)

>> Bill Lorentzen wrote:

>>> Unfortunately I don't know enough science to analyze the whole scene and

>>> draw my own "scientific" conclusions. That said, I do find one specific

>>> datum from the movie compelling: that historically the CO2 has risen

>>> AFTER the warming. If this is indeed true, then one would have to be a

>>> fool to believe that increased CO2 emissions will greatly cause global



>>> warming. Surely we are all smart enough to acknowledge that.  
>>>  
>>> A key question is: historically, which came first, the warming or the CO2  
>>> increase? Who can unequivocally determine that?  
>> Bill, you can read a good explanation here:  
>>  
>> <http://gristmill.grist.org/story/2006/12/22/231145/76>  
>>  
>> In short, they can be interrelated, and the biggest driver in the end is  
>> the CO2. IOW, it fits into the picture we're getting, that humans are now  
>> contributing to the current climate change.  
>>  
>> If you can't draw your own scientific conclusions, it may make some sense  
>> to listen to the conclusions that actual climate scientists are drawing.  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>  
>  
> We have two experts on climate here in Ottawa and both disagree vehemently  
> that CO2 is the major cause of the warming trend we are presently  
> experiencing. In fact one of them is a climate modelling expert and you  
> should hear him rail against the models that are being used by the Global  
> Warmists.  
>  
> All I can say Jamie is we will have to agree to disagree but I'm keeping an  
> open mind albeit a skeptical one.  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Sarah](#) on Mon, 02 Apr 2007 01:35:44 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Bill,

I like your positive attitude. Fun is good. But in the meantime, can you get your e-meter out and audit the evil intentions out of the oil company executives? Hey, clearing the planet could take on a whole new more literal meaning. :)

Sarah

"Bill Lorentzen" <[bill@lorentzen.ws](mailto:bill@lorentzen.ws)> wrote in message <news:4610398c@linux...>  
> Hi Jamie,

>  
> I read the article, and it indicated that CO2 did not trigger the warming,  
> but that it was part of the after/contributing effects.  
>  
> I wish we would all work on positive actions we can take to handle the  
> situation instead of what we must give up and stop doing and make amends  
> for. People like to DO things not give up things. They like to CREATE, not  
> reduce, and frankly it's better for them. I would much rather go on an  
> exercise program than a low calory diet. Telling a person to stop doing  
> something is much less effective than showing them how to do something  
> different and better (and hopefully more fun).  
>  
> Let's work on creative ways to make positive changes in our world. One of  
> the articles posted above pointed out that we will have more food  
> production as an effect of global warming. Well that's a good thing, and  
> we can capitalize on it by helping to ameliorate famine, but that's never  
> mentioned by the blamers and takers-away.  
>  
> Speaking very honestly, I would be OK with having fewer polar bears if the  
> millions of starving people on Earth could eat a healthy diet. But ideally  
> we can find solutions that don't harm anything, but actually SOLVE the  
> problem, not just reduce all the bad things we humans are doing to the  
> poor pitiful world. Let's get really smart and handle the hell out of it  
> instead of tiptoeing around being all careful and apologetic. Let's have  
> some fun!  
>  
> Bill L  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:460fec68\$1@linux...  
>> Bill Lorentzen wrote:  
>>> Unfortunately I don't know enough science to analyze the whole scene and  
>>> draw my own "scientific" conclusions. That said, I do find one specific  
>>> datum from the movie compelling: that historically the CO2 has risen  
>>> AFTER the warming. If this is indeed true, then one would have to be a  
>>> fool to believe that increased CO2 emissions will greatly cause global  
>>> warming. Surely we are all smart enough to acknowledge that.  
>>>  
>>> A key question is: historically, which came first, the warming or the  
>>> CO2 increase? Who can unequivocally determine that?  
>>  
>> Bill, you can read a good explanation here:  
>>  
>> <http://gristmill.grist.org/story/2006/12/22/231145/76>  
>>  
>> In short, they can be interrelated, and the biggest driver in the end is  
>> the CO2. IOW, it fits into the picture we're getting, that humans are now  
>> contributing to the current climate change.  
>>

>> If you can't draw your own scientific conclusions, it may make some sense  
>> to listen to the conclusions that actual climate scientists are drawing.  
>>  
>> Cheers,  
>> -Jamie  
>> www.JamieKrutz.com  
>>  
>>  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 01:48:25 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Thanks for checking out the article, Bill.

The conclusion was that in the period of time discussed (way back then) during that particular series of events (different circumstances than now), even then, notice that CO2 was the major factor in warming.

Even in cases where CO2 didn't happen first, the initial warming still lead to CO2 releases, and the CO2 then caused the majority of the ultimate warming.

OK, back to now. We are releasing CO2 directly into the system. The planet is warming. Warming can lead to more greenhouse gases being released (melting tundra, for example) which leads to more warming.

This is risky behavior on our part. We can already see effects and the greenhouse gases we've released will be in the atmosphere for a very long time. And we continue to add an increasing amount even as we speak.

Alarms are going off in the scientific world. We can see what is happening. A consensus of experts in varied fields are making the connections. This is an immediate challenge. How do we respond?

As you imply, it would be difficult to stop our current behaviors instantly. That would cause some immediate new problems.

But we can look at the total sum of changes needed to mitigate the greenhouse gases we produce. Then, look at possible solutions and the amount of mitigation available from each solution. We can then choose the optimal combination of solutions to apply, together, that add up to the amount of mitigation needed.

Here's one article proposing possible solutions:

"Humanity already possesses the fundamental scientific, technical, and industrial know-how to solve the carbon and climate problem for the next half-century.

over the next 50 years and limit atmospheric CO<sub>2</sub> to a trajectory that avoids a doubling of the preindustrial concentration. Every element in this portfolio has passed beyond the laboratory bench and demonstration project; many are already implemented somewhere at full industrial scale.

Although no element is a credible candidate for doing the entire job (or even half the job) by itself, the portfolio as a whole is large enough that not every element has to be used."

Here's their list - choose 7 to expand into solution "wedges":

1. Efficient vehicles
2. Reduced use of vehicles
3. Efficient buildings
4. Efficient baseload coal plants
5. Gas baseload power for coal
6. Capture CO<sub>2</sub> at baseload power plant
7. Capture CO<sub>2</sub> at H<sub>2</sub> plant
8. Capture CO<sub>2</sub> at coal-to-synfuels plant
9. Nuclear power for coal power
10. Wind power for coal power
11. PV power for coal power
12. Wind H<sub>2</sub> in fuel-cell car for gasoline in hybrid car
13. Biomass fuel for fossil fuel
14. Reduced deforestation, plus reforestation
15. Conservation tillage

Much more info in the article:

<http://carbonsequestration.us/Papers-presentations/htm/Pacala-Socolow-ScienceMag-Aug2004.pdf>

A similar article is in the September 2006 issue of Scientific American which focuses on "how to power the economy and still fight global warming."

Look for the issue called "Energy's Future Beyond Carbon." They did a great job of covering major options. Worth a trip to the library or ordering from the web site.

(Volume 295, Number 3 - [www.sciam.com](http://www.sciam.com) - with some free overviews available here: <http://www.sciam.com/issue.cfm?issueDate=Sep-06>)

Bill I like your idea of positive actions, and the quickest first action is to do everything we can to encourage efficiency.

A simple example is using a compact fluorescent light bulb instead of a standard incandescent light bulb. Both create light and heat. The CF creates more light, less heat. The incandescent bulb creates mostly heat, relatively little light. It should be called a "heat" bulb not a "light" bulb. It is, in fact, the heating element for the easy bake oven.

If everyone switches to CF, we can build fewer power plants and save on greenhouse gas emissions. While still lighting our lives. New LED lighting technology is also worth looking at for efficiency.

We need more technologies like those. From appliances to transportation to manufacturing. Energy policy should be written to encourage efficiency. Do the same work with less wasteful approaches.

This will also save money and stimulate new markets. Let's have some fun, indeed!

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

Bill Lorentzen wrote:

> Hi Jamie,  
>  
> I read the article, and it indicated that CO2 did not trigger the warming,  
> but that it was part of the after/contributing effects.  
>  
> I wish we would all work on positive actions we can take to handle the  
> situation instead of what we must give up and stop doing and make amends  
> for. People like to DO things not give up things. They like to CREATE, not  
> reduce, and frankly it's better for them. I would much rather go on an  
> exercise program than a low calory diet. Telling a person to stop doing  
> something is much less effective than showing them how to do something  
> different and better (and hopefully more fun).  
>  
> Let's work on creative ways to make positive changes in our world. One of  
> the articles posted above pointed out that we will have more food production  
> as an effect of global warming. Well that's a good thing, and we can  
> capitalize on it by helping to ameliorate famine, but that's never mentioned



> by the blamers and takers-away.  
>  
> Speaking very honestly, I would be OK with having fewer polar bears if the  
> millions of starving people on Earth could eat a healthy diet. But ideally  
> we can find solutions that don't harm anything, but actually SOLVE the  
> problem, not just reduce all the bad things we humans are doing to the poor  
> pitiful world. Let's get really smart and handle the hell out of it instead  
> of tiptoeing around being all careful and apologetic. Let's have some fun!  
>  
> Bill L  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:460fec68\$1@linux...  
>> Bill Lorentzen wrote:  
>>> Unfortunately I don't know enough science to analyze the whole scene and  
>>> draw my own "scientific" conclusions. That said, I do find one specific  
>>> datum from the movie compelling: that historically the CO2 has risen  
>>> AFTER the warming. If this is indeed true, then one would have to be a  
>>> fool to believe that increased CO2 emissions will greatly cause global  
>>> warming. Surely we are all smart enough to acknowledge that.  
>>>  
>>> A key question is: historically, which came first, the warming or the CO2  
>>> increase? Who can unequivocally determine that?  
>> Bill, you can read a good explanation here:  
>>  
>> <http://gristmill.grist.org/story/2006/12/22/231145/76>  
>>  
>> In short, they can be interrelated, and the biggest driver in the end is  
>> the CO2. IOW, it fits into the picture we're getting, that humans are now  
>> contributing to the current climate change.  
>>  
>> If you can't draw your own scientific conclusions, it may make some sense  
>> to listen to the conclusions that actual climate scientists are drawing.  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>  
>>  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [DC](#) on Mon, 02 Apr 2007 04:46:27 GMT  
[View Forum Message](#) <> [Reply to Message](#)

"Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote:

>If the environmental and scientific communities are right and the naysayers  
>are wrong, the naysayers are fucking up my one-and-only World and I feel  
>I should have the right to fight for it.

And some of the scientific community disagrees.  
They should be heard, not silenced, nor smeared.

If climate change (which even developing an actual "global temperature" is quite in dispute about) really correlates closely to sun activity, and the basis for calling carbon the culprit is in dispute, then the brave and courageous ones are on the other side aren't they? Especially with the viciousness of the campaign against them, they look virtuous, rather than scummy.

You are sure of being right. I am unconvinced either you or "the naysayers" are right at this point.

There are agendas (other than "saving the planet") potentially corrupting both viewpoints.

One thing we know is that the scientists are not going to be shut up, even when smeared and threatened with death, as Ball has been.

But then, he is just an "industry spokesman", right?

There is no evidence of that. It looks like a smear campaign.

I am willing to be wrong. I am still very worried about all this, but millions of us are still looking, without our minds made up. Don't think we are stupid, nor being stupid, nor greedy, nor grabbing to amass everything we can.

DC

---

Subject: Re: OT - Global warming - scientists, schmientists . . .  
Posted by [dc\[3\]](#) on Mon, 02 Apr 2007 05:05:46 GMT  
[View Forum Message](#) <> [Reply to Message](#)

"Sarah" <sarahjane@sarahtonin.com> wrote:

>As you may notice, I found his  
>implication regarding the Third World somewhat less than compelling.

Hi Sarah!  
Hey, I think the African was telling the truth, and really wants

the basics of civilization, but here is what really worries me about "playing it safe"

We are not only likely to ruin our economies, but, because of huge loopholes in things like Kyoto (exempting certain countries from the goals) we are likely to drastically increase pollution and greenhouse gases as all manufacturing moves to the exempted countries. I saw it happen in the furniture biz here in California. My brother's company closed and moved to Mexico because of their pollution exemptions! The furniture biz is almost dead in CA because of ill-considered environmental regs, but thrives in Mexico, where the (much higher) pollution wafts right back across the border...

WTF?

Politics and socialism infect and corrupt most environmental movements. It's like the stupidity of being dependant on the middle east (of all places) for energy. Every time someone brings up the strategic horrors of this situation, someone starts talking about "alternative energy". It's like our worldwide crisis, which could lead to a huge war, is their "big opportunity" to remind us of geothermal... ??

Oh, and our president gives his brother's buddies in FL, "no drilling" laws to protect their precious ocean views from the heartbreak of looking at drilling platforms... (hey wasn't he an oil-company shill?)

We have become so selfish...

My solution would be to slam the door on both the energy industry lobby, AND the environmental lobby, and first go on a crash diet to eliminate middle eastern oil in ten years.

First, we drill drill drill. Don't like oil platforms? Move to Antartica.

At the same time, we look at every viable alternative and take it as far as it can be taken.

Manhattan-project priority to both projects.

And NO scientist should be smeared nor threatened unless it is proven that they are corrupt. We MUST remove ideology from this process and get the truth.

We need the truth, not the "truth", meaning my truth or your

truth, and the damn shouting loudmouths on both sides need to lose their place at the table.

That movie did not create the opposition to the global warming consensus, it simply exposed it.

my .02

DC

---

---

Subject: Re: OT - Global warming - scientists, schmientists . . .

Posted by [dc\[3\]](#) on Mon, 02 Apr 2007 05:14:13 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

BTW, I think that if we had a president that was actually capable of doing the right thing, he/she would be assassinated asap.

The really fugged-up thing is you just don't know which side would do it first?

A middle eastern wacko?

An Oregon anarcho-enviro wacko?

(sorry, not you those guys down 5 a ways)

An energy industry hit man?

Tim McVeigh's cousin?

This is what is so bad about the times we live in. It is not that certain people want an apocolypse, it's that I am not sure anyone can stop it...

I would love to be wrong.

DC

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [erlilo](#) on Mon, 02 Apr 2007 11:53:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

....not when our believings are just for the day...

....but what about tomorrow and the coming future when we're all just talk and discuss it as our believings in the day, for tomorrow??...

For me, this has nothing to do with believings at all, it has to do with the future for our children an grandchildren on this planet!

Erling

"DC" <dc@spammersinthetoposphere.org> skrev i en meddelelse  
news:4610489d\$1@linux...

>  
> I do not believe anyone here is stupid.  
>  
> DC  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [erlilo](#) on Mon, 02 Apr 2007 12:08:49 GMT  
[View Forum Message](#) <> [Reply to Message](#)

....are you talking about some kind of which came first, as "the chicken or the egg"?

erlilo

"Bill Lorentzen" <bill@lorentzen.ws> skrev i en meddelelse  
news:460fe430@linux...

> A key question is: historically, which came first, the warming or the CO2  
> increase? Who can unequivocally determine that?  
>  
> Bill  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Don Nafe](#) on Mon, 02 Apr 2007 15:31:51 GMT  
[View Forum Message](#) <> [Reply to Message](#)

"Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...

>  
> Thanks for checking out the article, Bill.  
>  
> The conclusion was that in the period of time discussed (way back then)  
> during that particular series of events (different circumstances than  
> now), even then, notice that CO2 was the major factor in warming.

There is evidence to the contrary that CO2 was the cause of any previous warming periods.



>  
> Even in cases where CO2 didn't happen first, the initial warming still  
> lead to CO2 releases, and the CO2 then caused the majority of the ultimate  
> warming.  
>

Then can you explain

- a) why the earth didn't continue to heat itself into oblivion
- b) what caused the eventual cooling periods

---

Subject: Re: OT - Global warming - scientists, schmientists . . .  
Posted by [Paul Artola](#) on Mon, 02 Apr 2007 15:36:25 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

While the "right thing" is certain still under debate, I think the reality is that if the President were to attempt a radical shift in our energy policy, he would find his political (i.e. financial) backers would desert him long before an assassin's bullets, bombs, or infectious poodles would ever have a chance to work.

I am amused by all the debate on this subject in this newsgroup, but until large sections of our economy no longer rely on petrodollars, the changes people desire are not likely to come about by governmental proclamation. Thousands (millions?) of jobs (= livelihoods = votes) are at stake.

In an analogous, fashion, what if the President declared that ProTools was now banned? How many studios would go out of business as a result of that? Hmmm, come to think of it...

- Paul Artola  
Real World, Maryland

On 2 Apr 2007 15:14:13 +1000, "DC" <[dc@spammersinhell.com](mailto:dc@spammersinhell.com)> wrote:

>  
>BTW, I think that if we had a president that was actually capable  
>of doing the right thing, he/she would be assassinated asap.  
>  
>The really fugged-up thing is you just don't know which side  
>would do it first?  
>  
>A middle eastern wacko?  
>An Oregon anarcho-enviro wacko?

>(sorry, not you those guys down 5 a ways)  
>An energy industry hit man?  
>Tim McVeigh's cousin?  
>  
>This is what is so bad about the times we live in. It is not  
>that certain people want an apocolypse, it's that I am not  
>sure anyone can stop it...  
>  
>I would love to be wrong.  
>  
>DC  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 17:14:15 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:

> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>> Thanks for checking out the article, Bill.  
>>  
>> The conclusion was that in the period of time discussed (way back then)  
>> during that particular series of events (different circumstances than  
>> now), even then, notice that C02 was the major factor in warming.  
>  
>  
> There is evidence to the contrary that CO2 was the cause of any previous  
> warming periods.

What evidence is that?

Should we ignore all the major evidence that C02 was a contributor to  
previous warming events?

Should we ignore the compelling evidence that C02 is a primary cause of  
the current warming event?

From: <http://gristmill.grist.org/story/2006/12/26/224933/67>

"Objection: In the geological record, it is clear that CO2 does not  
trigger climate changes. Why should it be any different now?"

Answer: Given the fact that human industrialization is unique in the  
history of planet earth, do we really need historical precedent for  
CO2-triggered climate change before we accept what we observe today?  
Surely it is not far-fetched that unprecedented consequences would  
follow from unprecedented events.

But putting this crucial point aside, history does indeed provide some relevant insights and dire warnings.

During the glacial/interglacial cycles, temperatures and CO2 concentrations showed remarkable correlation. Closer examination reveals that CO2 does not lead the temperature changes, but lags by many centuries. Even so, the full extent of the warming can not be explained without the effects of CO2. Though these cycles do not demonstrate that greenhouse gas initiated warming, they do lend credence to the importance of CO2 and CH4 in setting the planetary thermostat.

There are also events in geological history when sharp rises in temperature were initiated and driven by large spikes in greenhouse gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean pH levels dropped drastically and global temperatures rapidly rose over 5oC. The resolution of available proxy records indicates that this occurred in a period of time no longer than 5K years; it's not possible to know if it happened even faster. The likely cause was massive releases of methane from the ocean floors, perhaps due to some smaller warming or changes in sea level. It took over 100K years for the ocean, atmosphere, and temperatures to return to their previous state. The result was a mass extinction event that took millions of years to recover from.

We can also look at the formation of the Deccan Traps. In this case, a massive and sustained volcanic action altered atmospheric chemistry and caused a drastic climate change, one that led to the extinction of the dinosaurs. And Snowball Earth theories involve the build-up of greenhouse gases as the mechanism by which the earth eventually escaped its frozen state.

In short, it is simply untrue that history lacks precedent for greenhouse-gas-driven warming. The precedents are there, as are the dire warnings."

>> Even in cases where CO2 didn't happen first, the initial warming still  
>> lead to CO2 releases, and the CO2 then caused the majority of the ultimate  
>> warming.

>>

>

> Then can you explain

>

> a) why the earth didn't continue to heat itself into oblivion

What do you mean by oblivion? The earth has been very hot in the past.

Luckily for us, the earth has lately come to a balance that currently favors our species.

Clearly the balance at various times in earth's history would not always have been so favorable.

The balance now is pretty good for humans, so let's not screw it up.

> b) what caused the eventual cooling periods

Which ones? There are many drivers of climate.

This is an interesting article about ice ages:  
[http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

We don't want that, either.

The current problem we face is warming, and the data suggests human produced greenhouse gases are contributing to that problem.

Since we control what we produce, we have the opportunity and responsibility to do something about it, for the sake of future generations.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Don Nafe](#) on Mon, 02 Apr 2007 17:24:32 GMT  
[View Forum Message](#) <> [Reply to Message](#)

From your quoted source

"During the glacial/interglacial cycles, temperatures and CO2 concentrations showed remarkable correlation. Closer examination reveals that CO2 does not lead the temperature changes, but lags by many centuries. Even so, the full extent of the warming can not be explained without the effects of CO2. Though these cycles do not demonstrate that greenhouse gas initiated warming, they do lend credence to the importance of CO2 and CH4 in setting the planetary thermostat."

Lending credence is not evidence...it is a theory

"Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
> Don Nafe wrote:  
>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>>> Thanks for checking out the article, Bill.  
>>>  
>>> The conclusion was that in the period of time discussed (way back then)  
>>> during that particular series of events (different circumstances than  
>>> now), even then, notice that CO2 was the major factor in warming.  
>>  
>>  
>> There is evidence to the contrary that CO2 was the cause of any previous  
>> warming periods.  
>  
> What evidence is that?  
>  
> Should we ignore all the major evidence that CO2 was a contributor to  
> previous warming events?  
>  
> Should we ignore the compelling evidence that CO2 is a primary cause of  
> the current warming event?  
>  
> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>  
> "Objection: In the geological record, it is clear that CO2 does not  
> trigger climate changes. Why should it be any different now?"  
>  
> Answer: Given the fact that human industrialization is unique in the  
> history of planet earth, do we really need historical precedent for  
> CO2-triggered climate change before we accept what we observe today?  
> Surely it is not far-fetched that unprecedented consequences would follow  
> from unprecedented events.  
>  
> But putting this crucial point aside, history does indeed provide some  
> relevant insights and dire warnings.  
>  
> During the glacial/interglacial cycles, temperatures and CO2  
> concentrations showed remarkable correlation. Closer examination reveals  
> that CO2 does not lead the temperature changes, but lags by many  
> centuries. Even so, the full extent of the warming can not be explained  
> without the effects of CO2. Though these cycles do not demonstrate that  
> greenhouse gas initiated warming, they do lend credence to the importance  
> of CO2 and CH4 in setting the planetary thermostat.  
>  
> There are also events in geological history when sharp rises in  
> temperature were initiated and driven by large spikes in greenhouse  
> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean

> pH levels dropped drastically and global temperatures rapidly rose over  
> 50C. The resolution of available proxy records indicates that this  
> occurred in a period of time no longer than 5K years; it's not possible to  
> know if it happened even faster. The likely cause was massive releases of  
> methane from the ocean floors, perhaps due to some smaller warming or  
> changes in sea level. It took over 100K years for the ocean, atmosphere,  
> and temperatures to return to their previous state. The result was a mass  
> extinction event that took millions of years to recover from.  
>  
> We can also look at the formation of the Deccan Traps. In this case, a  
> massive and sustained volcanic action altered atmospheric chemistry and  
> caused a drastic climate change, one that led to the extinction of the  
> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
> gases as the mechanism by which the earth eventually escaped its frozen  
> state.  
>  
> In short, it is simply untrue that history lacks precedent for  
> greenhouse-gas-driven warming. The precedents are there, as are the dire  
> warnings."  
>  
>  
>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>> ultimate warming.  
>>>  
>>  
>> Then can you explain  
>>  
>> a) why the earth didn't continue to heat itself into oblivion  
>  
> What do you mean by oblivion? The earth has been very hot in the past.  
> Luckily for us, the earth has lately come to a balance that currently  
> favors our species.  
>  
> Clearly the balance at various times in earth's history would not always  
> have been so favorable.  
>  
> The balance now is pretty good for humans, so let's not screw it up.  
>  
>  
>> b) what caused the eventual cooling periods  
>  
> Which ones? There are many drivers of climate.  
>  
> This is an interesting article about ice ages:  
> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)  
>  
> We don't want that, either.



>  
> The current problem we face is warming, and the data suggests human  
> produced greenhouse gases are contributing to that problem.  
>  
> Since we control what we produce, we have the opportunity and  
> responsibility to do something about it, for the sake of future  
> generations.  
>  
> Cheers,  
> -Jamie  
> [www.JamieKrutz.com](http://www.JamieKrutz.com)

---

---

Subject: Re: OT - Global warming - deniers, schmeniers...  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 17:26:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

A lot comes down to "follow the money."

However, there is a strong case that there is money to be made in new energy development. And a lot of patriotic benefits in transitioning to more forward looking energy policies.

Plus, Don has been wrong in the past. So I'm optimistic. :^)

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

Paul Artola wrote:

> While the "right thing" is certain still under debate, I think the  
> reality is that if the President were to attempt a radical shift in  
> our energy policy, he would find his political (i.e. financial)  
> backers would desert him long before an assassin's bullets, bombs, or  
> infectious poodles would ever have a chance to work.  
>  
> I am amused by all the debate on this subject in this newsgroup, but  
> until large sections of our economy no longer rely on petrodollars,  
> the changes people desire are not likely to come about by governmental  
> proclamation. Thousands (millions?) of jobs ( = livelihoods = votes)  
> are at stake.  
>  
> In an analogous, fashion, what if the President declared that ProTools  
> was now banned? How many studios would go out of business as a result  
> of that? Hmmm, come to think of it...  
>  
> - Paul Artola

> Real World, Maryland  
>  
> On 2 Apr 2007 15:14:13 +1000, "DC" <dc@spammersinhell.com> wrote:  
>  
>> BTW, I think that if we had a president that was actually capable  
>> of doing the right thing, he/she would be assassinated asap.  
>>  
>> The really fugged-up thing is you just don't know which side  
>> would do it first?  
>>  
>> A middle eastern wacko?  
>> An Oregon anarcho-enviro wacko?  
>> (sorry, not you those guys down 5 a ways)  
>> An energy industry hit man?  
>> Tim McVeigh's cousin?  
>>  
>> This is what is so bad about the times we live in. It is not  
>> that certain people want an apocolypse, it's that I am not  
>> sure anyone can stop it...  
>>  
>> I would love to be wrong.  
>>  
>> DC  
>>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!

Posted by [Don Nafe](#) on Mon, 02 Apr 2007 17:30:55 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Also from your source

There are also events in geological history when sharp rises in temperature were initiated and driven by large spikes in greenhouse gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean pH levels dropped drastically and global temperatures rapidly rose over 5oC. The resolution of available proxy records indicates that this occurred in a period of time no longer than 5K years; it's not possible to know if it happened even faster. The likely cause was massive releases of methane from the ocean floors, perhaps due to some smaller warming or changes in sea level. It took over 100K years for the ocean, atmosphere, and temperatures to return to their previous state. The result was a mass extinction event that took millions of years to recover from.

Seems mother nature is a significant force behind climate change

"Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
> Don Nafe wrote:  
>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>>> Thanks for checking out the article, Bill.  
>>>  
>>> The conclusion was that in the period of time discussed (way back then)  
>>> during that particular series of events (different circumstances than  
>>> now), even then, notice that CO2 was the major factor in warming.  
>>  
>>  
>> There is evidence to the contrary that CO2 was the cause of any previous  
>> warming periods.  
>  
> What evidence is that?  
>  
> Should we ignore all the major evidence that CO2 was a contributor to  
> previous warming events?  
>  
> Should we ignore the compelling evidence that CO2 is a primary cause of  
> the current warming event?  
>  
> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>  
> "Objection: In the geological record, it is clear that CO2 does not  
> trigger climate changes. Why should it be any different now?"  
>  
> Answer: Given the fact that human industrialization is unique in the  
> history of planet earth, do we really need historical precedent for  
> CO2-triggered climate change before we accept what we observe today?  
> Surely it is not far-fetched that unprecedented consequences would follow  
> from unprecedented events.  
>  
> But putting this crucial point aside, history does indeed provide some  
> relevant insights and dire warnings.  
>  
> During the glacial/interglacial cycles, temperatures and CO2  
> concentrations showed remarkable correlation. Closer examination reveals  
> that CO2 does not lead the temperature changes, but lags by many  
> centuries. Even so, the full extent of the warming can not be explained  
> without the effects of CO2. Though these cycles do not demonstrate that  
> greenhouse gas initiated warming, they do lend credence to the importance  
> of CO2 and CH4 in setting the planetary thermostat.  
>  
> There are also events in geological history when sharp rises in  
> temperature were initiated and driven by large spikes in greenhouse

> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean  
> pH levels dropped drastically and global temperatures rapidly rose over  
> 5oC. The resolution of available proxy records indicates that this  
> occurred in a period of time no longer than 5K years; it's not possible to  
> know if it happened even faster. The likely cause was massive releases of  
> methane from the ocean floors, perhaps due to some smaller warming or  
> changes in sea level. It took over 100K years for the ocean, atmosphere,  
> and temperatures to return to their previous state. The result was a mass  
> extinction event that took millions of years to recover from.

>  
> We can also look at the formation of the Deccan Traps. In this case, a  
> massive and sustained volcanic action altered atmospheric chemistry and  
> caused a drastic climate change, one that lead to the extinction of the  
> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
> gases as the mechanism by which the earth eventually escaped its frozen  
> state.

>  
> In short, it is simply untrue that history lacks precedent for  
> greenhouse-gas-driven warming. The precedents are there, as are the dire  
> warnings."

>  
>  
>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>> ultimate warming.

>>>

>>

>> Then can you explain

>>

>> a) why the earth didn't continue to heat itself into oblivion

>

> What do you mean by oblivion? The earth has been very hot in the past.  
> Luckily for us, the earth has lately come to a balance that currently  
> favors our species.

>

> Clearly the balance at various times in earth's history would not always  
> have been so favorable.

>

> The balance now is pretty good for humans, so let's not screw it up.

>

>

>> b) what caused the eventual cooling periods

>

> Which ones? There are many drivers of climate.

>

> This is an interesting article about ice ages:

> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

>  
> We don't want that, either.  
>  
> The current problem we face is warming, and the data suggests human  
> produced greenhouse gases are contributing to that problem.  
>  
> Since we control what we produce, we have the opportunity and  
> responsibility to do something about it, for the sake of future  
> generations.  
>  
> Cheers,  
> -Jamie  
> www.JamieKrutz.com

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
BS-polemic!

Posted by [Jamie K](#) on Mon, 02 Apr 2007 17:31:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Evidence supports (or doesn't support) theories. That's how science works. In this case, he is saying the effects of CO2 explain the extent of warming from those events. You can go to the link and read the rest of the site for more clarification.

Then get back to me on why we should ignore the evidence. I don't think we should.

Cheers,  
-Jamie  
www.JamieKrutz.com

Don Nafe wrote:

> From your quoted source  
>  
> "During the glacial/interglacial cycles, temperatures and CO2 concentrations  
> showed remarkable correlation. Closer examination reveals that CO2 does not  
> lead the temperature changes, but lags by many centuries. Even so, the full  
> extent of the warming can not be explained without the effects of CO2.  
> Though these cycles do not demonstrate that greenhouse gas initiated  
> warming, they do lend credence to the importance of CO2 and CH4 in setting  
> the planetary thermostat."  
>  
>  
> Lending credence is not evidence...it is a theory  
>  
>

>  
>  
> "Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
>> Don Nafe wrote:  
>>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>>>> Thanks for checking out the article, Bill.  
>>>>  
>>>> The conclusion was that in the period of time discussed (way back then)  
>>>> during that particular series of events (different circumstances than  
>>>> now), even then, notice that CO2 was the major factor in warming.  
>>>  
>>> There is evidence to the contrary that CO2 was the cause of any previous  
>>> warming periods.  
>> What evidence is that?  
>>  
>> Should we ignore all the major evidence that CO2 was a contributor to  
>> previous warming events?  
>>  
>> Should we ignore the compelling evidence that CO2 is a primary cause of  
>> the current warming event?  
>>  
>> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>>  
>> "Objection: In the geological record, it is clear that CO2 does not  
>> trigger climate changes. Why should it be any different now?"  
>>  
>> Answer: Given the fact that human industrialization is unique in the  
>> history of planet earth, do we really need historical precedent for  
>> CO2-triggered climate change before we accept what we observe today?  
>> Surely it is not far-fetched that unprecedented consequences would follow  
>> from unprecedented events.  
>>  
>> But putting this crucial point aside, history does indeed provide some  
>> relevant insights and dire warnings.  
>>  
>> During the glacial/interglacial cycles, temperatures and CO2  
>> concentrations showed remarkable correlation. Closer examination reveals  
>> that CO2 does not lead the temperature changes, but lags by many  
>> centuries. Even so, the full extent of the warming can not be explained  
>> without the effects of CO2. Though these cycles do not demonstrate that  
>> greenhouse gas initiated warming, they do lend credence to the importance  
>> of CO2 and CH4 in setting the planetary thermostat.  
>>  
>> There are also events in geological history when sharp rises in  
>> temperature were initiated and driven by large spikes in greenhouse  
>> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
>> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean  
>> pH levels dropped drastically and global temperatures rapidly rose over



>> 5oC. The resolution of available proxy records indicates that this  
>> occurred in a period of time no longer than 5K years; it's not possible to  
>> know if it happened even faster. The likely cause was massive releases of  
>> methane from the ocean floors, perhaps due to some smaller warming or  
>> changes in sea level. It took over 100K years for the ocean, atmosphere,  
>> and temperatures to return to their previous state. The result was a mass  
>> extinction event that took millions of years to recover from.

>>

>> We can also look at the formation of the Deccan Traps. In this case, a  
>> massive and sustained volcanic action altered atmospheric chemistry and  
>> caused a drastic climate change, one that led to the extinction of the  
>> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
>> gases as the mechanism by which the earth eventually escaped its frozen  
>> state.

>>

>> In short, it is simply untrue that history lacks precedent for  
>> greenhouse-gas-driven warming. The precedents are there, as are the dire  
>> warnings."

>>

>>

>>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>>> ultimate warming.

>>>>

>>> Then can you explain

>>>

>>> a) why the earth didn't continue to heat itself into oblivion  
>> What do you mean by oblivion? The earth has been very hot in the past.  
>> Luckily for us, the earth has lately come to a balance that currently  
>> favors our species.

>>

>> Clearly the balance at various times in earth's history would not always  
>> have been so favorable.

>>

>> The balance now is pretty good for humans, so let's not screw it up.

>>

>>

>>> b) what caused the eventual cooling periods  
>> Which ones? There are many drivers of climate.

>>

>> This is an interesting article about ice ages:

>> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

>>

>> We don't want that, either.

>>

>> The current problem we face is warming, and the data suggests human  
>> produced greenhouse gases are contributing to that problem.

>>

>> Since we control what we produce, we have the opportunity and  
>> responsibility to do something about it, for the sake of future  
>> generations.

>>  
>> Cheers,  
>> -Jamie  
>> www.JamieKruz.com  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Don Nafe](#) on Mon, 02 Apr 2007 17:34:25 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

The current problem we face is warming, and the data suggests human produced greenhouse gases are contributing to that problem.

Since we control what we produce, we have the opportunity and responsibility to do something about it, for the sake of future generations.

Cheers,  
-Jamie  
www.JamieKruz.com

Well put Jamie

"Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
> Don Nafe wrote:  
>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>>> Thanks for checking out the article, Bill.  
>>>>  
>>>> The conclusion was that in the period of time discussed (way back then)  
>>>> during that particular series of events (different circumstances than  
>>>> now), even then, notice that CO2 was the major factor in warming.  
>>>  
>>> There is evidence to the contrary that CO2 was the cause of any previous  
>>> warming periods.  
>>>  
>>> What evidence is that?  
>>>  
>>> Should we ignore all the major evidence that CO2 was a contributor to  
>>> previous warming events?  
>>>

> Should we ignore the compelling evidence that CO2 is a primary cause of  
> the current warming event?  
>  
> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>  
> "Objection: In the geological record, it is clear that CO2 does not  
> trigger climate changes. Why should it be any different now?  
>  
> Answer: Given the fact that human industrialization is unique in the  
> history of planet earth, do we really need historical precedent for  
> CO2-triggered climate change before we accept what we observe today?  
> Surely it is not far-fetched that unprecedented consequences would follow  
> from unprecedented events.  
>  
> But putting this crucial point aside, history does indeed provide some  
> relevant insights and dire warnings.  
>  
> During the glacial/interglacial cycles, temperatures and CO2  
> concentrations showed remarkable correlation. Closer examination reveals  
> that CO2 does not lead the temperature changes, but lags by many  
> centuries. Even so, the full extent of the warming can not be explained  
> without the effects of CO2. Though these cycles do not demonstrate that  
> greenhouse gas initiated warming, they do lend credence to the importance  
> of CO2 and CH4 in setting the planetary thermostat.  
>  
> There are also events in geological history when sharp rises in  
> temperature were initiated and driven by large spikes in greenhouse  
> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean  
> pH levels dropped drastically and global temperatures rapidly rose over  
> 5oC. The resolution of available proxy records indicates that this  
> occurred in a period of time no longer than 5K years; it's not possible to  
> know if it happened even faster. The likely cause was massive releases of  
> methane from the ocean floors, perhaps due to some smaller warming or  
> changes in sea level. It took over 100K years for the ocean, atmosphere,  
> and temperatures to return to their previous state. The result was a mass  
> extinction event that took millions of years to recover from.  
>  
> We can also look at the formation of the Deccan Traps. In this case, a  
> massive and sustained volcanic action altered atmospheric chemistry and  
> caused a drastic climate change, one that lead to the extinction of the  
> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
> gases as the mechanism by which the earth eventually escaped its frozen  
> state.  
>  
> In short, it is simply untrue that history lacks precedent for  
> greenhouse-gas-driven warming. The precedents are there, as are the dire  
> warnings."

>  
>  
>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>> ultimate warming.  
>>>  
>>  
>> Then can you explain  
>>  
>> a) why the earth didn't continue to heat itself into oblivion  
>  
> What do you mean by oblivion? The earth has been very hot in the past.  
> Luckily for us, the earth has lately come to a balance that currently  
> favors our species.  
>  
> Clearly the balance at various times in earth's history would not always  
> have been so favorable.  
>  
> The balance now is pretty good for humans, so let's not screw it up.  
>  
>  
>> b) what caused the eventual cooling periods  
>  
> Which ones? There are many drivers of climate.  
>  
> This is an interesting article about ice ages:  
> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)  
>  
> We don't want that, either.  
>  
> The current problem we face is warming, and the data suggests human  
> produced greenhouse gases are contributing to that problem.  
>  
> Since we control what we produce, we have the opportunity and  
> responsibility to do something about it, for the sake of future  
> generations.  
>  
> Cheers,  
> -Jamie  
> [www.JamieKrutz.com](http://www.JamieKrutz.com)

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
BSpolemic!

Posted by [Jamie K](#) on Mon, 02 Apr 2007 17:46:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Don, science is full of disagreement and that's the way science works.

Theories are created and tested. Data accumulates and is evaluated. Many divergent voices are heard in the process and ideas are tested. Conclusions are reached. Some theories are supported by the evidence, others are not.

Fossil fuels PR flacks have exploited this innate process of disagreement and testing to pretend there is reason to fail to act. Because creating the illusion that it's too soon to act achieves their client's aim of encouraging hesitation. Why? Probably because they perceive action on this issue as a threat to a business model that encourages greenhouse gas production. (Some of the biggest "smear campaigns" probably originated with those folks.)

And so we hear a lot of well financed misinformation and amplification of any shred of disagreement. And all of that gets repeated ad nauseam in an attempt to drown out the consensus of mainstream climate science.

There is room for disagreement in science. Peer-reviewed studies talk, BS walks. If someone has a good theory backed by strong data with repeatable experimental results, the scientific mainstream will come to them. If they don't, fudgetaboutit.

At this point, given the scientific consensus and the potential risks, global warming denial is foot dragging, foolish and yesterday's news.

The world is moving on to face the problem and deal with it.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

DC wrote:

> "Gene Lennon" <[glennon@NOSPmyrealbox.com](mailto:glennon@NOSPmyrealbox.com)> wrote:

>

>> If the environmental and scientific communities are right and the naysayers  
>> are wrong, the naysayers are fucking up my one-and-only World and I feel  
>> I should have the right to fight for it.

>

> And some of the scientific community disagrees.  
> They should be heard, not silenced, nor smeared.

>

> If climate change (which even developing an actual "global  
> temperature" is quite in dispute about) really correlates  
> closely to sun activity, and the basis for calling carbon the  
> culprit is in dispute, then the brave and courageous ones are

> on the other side aren't they? Especially with the viciousness  
> of the campaign against them, they look virtuous, rather than  
> scummy.  
>  
> You are sure of being right. I am unconvinced either you or  
> "the naysayers" are right at this point.  
>  
> There are agendas (other than "saving the planet") potentially  
> corrupting both viewpoints.  
>  
> One thing we know is that the scientists are not going to  
> is shut up, even when smeared and threatened with death,  
> as Ball has been.  
>  
> But then, he is just an "industry spokesman", right?  
>  
> There is no evidence of that. It looks like a smear campaign.  
>  
> I am willing to be wrong. I am still very worried about all  
> this, but millions of us are still looking, without our minds  
> made up. Don't think we are stupid, nor being stupid, nor  
> greedy, nor grabbing to amass everything we can.  
>  
> DC  
>  
>  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 17:53:08 GMT  
[View Forum Message](#) <> [Reply to Message](#)

That's right Don, there are many climate drivers. Over earth's history, evidence shows complex interactions and wide changes to climate.

As you can see from that link, scientists who now recognize human-caused greenhouse gas production as a significant driver of the current warming event, also fully recognize other climate drivers involved in this and previous events.

For scientists conclusions are based on evidence, and the evidence points to human causes for the current global warming event.

Cheers,  
-Jamie  
[www.JamieKruz.com](http://www.JamieKruz.com)



Don Nafe wrote:

> Also from your source

>

> There are also events in geological history when sharp rises in  
> temperature were initiated and driven by large spikes in greenhouse  
> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
> Eocene Thermal Maximum is such a case. Roughly 55 million years ago,  
> ocean pH levels dropped drastically and global temperatures rapidly rose  
> over 5oC. The resolution of available proxy records indicates that this  
> occurred in a period of time no longer than 5K years; it's not possible  
> to know if it happened even faster. The likely cause was massive  
> releases of methane from the ocean floors, perhaps due to some smaller  
> warming or changes in sea level. It took over 100K years for the ocean,  
> atmosphere, and temperatures to return to their previous state. The  
> result was a mass extinction event that took millions of years to  
> recover from.

>

> Seems mother nature is a significant force behind climate change

>

>

>

> "Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...

>> Don Nafe wrote:

>>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...

>>>> Thanks for checking out the article, Bill.

>>>>

>>>> The conclusion was that in the period of time discussed (way back then)

>>>> during that particular series of events (different circumstances than

>>>> now), even then, notice that CO2 was the major factor in warming.

>>>

>>> There is evidence to the contrary that CO2 was the cause of any previous

>>> warming periods.

>> What evidence is that?

>>

>> Should we ignore all the major evidence that CO2 was a contributor to

>> previous warming events?

>>

>> Should we ignore the compelling evidence that CO2 is a primary cause of

>> the current warming event?

>>

>> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>

>>

>> "Objection: In the geological record, it is clear that CO2 does not

>> trigger climate changes. Why should it be any different now?

>>

>> Answer: Given the fact that human industrialization is unique in the

>> history of planet earth, do we really need historical precedent for  
>> CO2-triggered climate change before we accept what we observe today?  
>> Surely it is not far-fetched that unprecedented consequences would follow  
>> from unprecedented events.  
>>  
>> But putting this crucial point aside, history does indeed provide some  
>> relevant insights and dire warnings.  
>>  
>> During the glacial/interglacial cycles, temperatures and CO2  
>> concentrations showed remarkable correlation. Closer examination reveals  
>> that CO2 does not lead the temperature changes, but lags by many  
>> centuries. Even so, the full extent of the warming can not be explained  
>> without the effects of CO2. Though these cycles do not demonstrate that  
>> greenhouse gas initiated warming, they do lend credence to the importance  
>> of CO2 and CH4 in setting the planetary thermostat.  
>>  
>> There are also events in geological history when sharp rises in  
>> temperature were initiated and driven by large spikes in greenhouse  
>> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
>> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean  
>> pH levels dropped drastically and global temperatures rapidly rose over  
>> 5oC. The resolution of available proxy records indicates that this  
>> occurred in a period of time no longer than 5K years; it's not possible to  
>> know if it happened even faster. The likely cause was massive releases of  
>> methane from the ocean floors, perhaps due to some smaller warming or  
>> changes in sea level. It took over 100K years for the ocean, atmosphere,  
>> and temperatures to return to their previous state. The result was a mass  
>> extinction event that took millions of years to recover from.  
>>  
>> We can also look at the formation of the Deccan Traps. In this case, a  
>> massive and sustained volcanic action altered atmospheric chemistry and  
>> caused a drastic climate change, one that lead to the extinction of the  
>> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
>> gases as the mechanism by which the earth eventually escaped its frozen  
>> state.  
>>  
>> In short, it is simply untrue that history lacks precedent for  
>> greenhouse-gas-driven warming. The precedents are there, as are the dire  
>> warnings."  
>>  
>>  
>>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>>> ultimate warming.  
>>>>  
>>> Then can you explain  
>>>  
>>> a) why the earth didn't continue to heat itself into oblivion

>> What do you mean by oblivion? The earth has been very hot in the past.  
>> Luckily for us, the earth has lately come to a balance that currently  
>> favors our species.  
>>  
>> Clearly the balance at various times in earth's history would not always  
>> have been so favorable.  
>>  
>> The balance now is pretty good for humans, so let's not screw it up.  
>>  
>>  
>>> b) what caused the eventual cooling periods  
>> Which ones? There are many drivers of climate.  
>>  
>> This is an interesting article about ice ages:  
>> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)  
>>  
>> We don't want that, either.  
>>  
>> The current problem we face is warming, and the data suggests human  
>> produced greenhouse gases are contributing to that problem.  
>>  
>> Since we control what we produce, we have the opportunity and  
>> responsibility to do something about it, for the sake of future  
>> generations.  
>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>  
>

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS  
-polemic!

Posted by [Don Nafe](#) on Mon, 02 Apr 2007 18:10:22 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"Jamie K" <[Meta@Dimensional.com](mailto:Meta@Dimensional.com)> wrote in message [news:46113ede@linux...](mailto:news:46113ede@linux...)

>  
> Evidence supports (or doesn't support) theories. That's how science works.  
> In this case, he is saying the effects of CO2 explain the extent of  
> warming from those events. You can go to the link and read the rest of the  
> site for more clarification.  
>  
> Then get back to me on why we should ignore the evidence. I don't think we  
> should.  
>  
> Cheers,

> -Jamie  
> www.JamieKruz.com  
>

I have never said ignore the evidence...but what I am concerned about is that you seem to feel that every piece of evidence that contradicts CO2 as the driving force behind Global Warming is nothing more than Oil Industry propoganda.

Even within the very paper you quote it states that CO2 does not cause Global Warming...it is a factor...but not the single driving force behind Global Warming.

On a differnet note I was listening to a local talk show and the host quoted some figures regarding CO2 reduction...one being that we could close down all the Oil refineries in Alberta and all the manufacturing in Ontario and we would only reduce our National CO2 output by less than 50% of the required reductions mandated by the Kyoto accord. As to how accurate he was, I can't say for sure but he is quoting from leading economists, scientists etc.

So in essence we shut down our country's economy and we're still not even 1/2 way to our 1990 CO2 levels...

Somthing is wrong with this picture

>  
> Don Nafe wrote:  
>> From your quoted source  
>>  
>> "During the glacial/interglacial cycles, temperatures and CO2  
>> concentrations showed remarkable correlation. Closer examination reveals  
>> that CO2 does not lead the temperature changes, but lags by many  
>> centuries. Even so, the full extent of the warming can not be explained

>> without the effects of CO2. Though these cycles do not demonstrate that  
>> greenhouse gas initiated warming, they do lend credence to the importance  
>> of CO2 and CH4 in setting the planetary thermostat."  
>>  
>>  
>> Lending credence is not evidence...it is a theory  
>>  
>>  
>>  
>>  
>> "Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
>>> Don Nafe wrote:  
>>>> "Jamie K" <Meta@Dimensional.com> wrote in message  
>>>> news:461061e0@linux...  
>>>>> Thanks for checking out the article, Bill.  
>>>>>  
>>>>> The conclusion was that in the period of time discussed (way back  
>>>>> then) during that particular series of events (different circumstances  
>>>>> than now), even then, notice that CO2 was the major factor in warming.  
>>>>  
>>>> There is evidence to the contrary that CO2 was the cause of any  
>>>> previous warming periods.  
>>> What evidence is that?  
>>>  
>>> Should we ignore all the major evidence that CO2 was a contributor to  
>>> previous warming events?  
>>>  
>>> Should we ignore the compelling evidence that CO2 is a primary cause of  
>>> the current warming event?  
>>>  
>>> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>>>  
>>> "Objection: In the geological record, it is clear that CO2 does not  
>>> trigger climate changes. Why should it be any different now?  
>>>  
>>> Answer: Given the fact that human industrialization is unique in the  
>>> history of planet earth, do we really need historical precedent for  
>>> CO2-triggered climate change before we accept what we observe today?  
>>> Surely it is not far-fetched that unprecedented consequences would  
>>> follow from unprecedented events.  
>>>  
>>> But putting this crucial point aside, history does indeed provide some  
>>> relevant insights and dire warnings.  
>>>  
>>> During the glacial/interglacial cycles, temperatures and CO2  
>>> concentrations showed remarkable correlation. Closer examination reveals  
>>> that CO2 does not lead the temperature changes, but lags by many  
>>> centuries. Even so, the full extent of the warming can not be explained

>>> without the effects of CO2. Though these cycles do not demonstrate that  
>>> greenhouse gas initiated warming, they do lend credence to the  
>>> importance of CO2 and CH4 in setting the planetary thermostat.

>>>

>>> There are also events in geological history when sharp rises in  
>>> temperature were initiated and driven by large spikes in greenhouse  
>>> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
>>> Eocene Thermal Maximum is such a case. Roughly 55 million years ago,  
>>> ocean pH levels dropped drastically and global temperatures rapidly rose  
>>> over 5oC. The resolution of available proxy records indicates that this  
>>> occurred in a period of time no longer than 5K years; it's not possible  
>>> to know if it happened even faster. The likely cause was massive  
>>> releases of methane from the ocean floors, perhaps due to some smaller  
>>> warming or changes in sea level. It took over 100K years for the ocean,  
>>> atmosphere, and temperatures to return to their previous state. The  
>>> result was a mass extinction event that took millions of years to  
>>> recover from.

>>>

>>> We can also look at the formation of the Deccan Traps. In this case, a  
>>> massive and sustained volcanic action altered atmospheric chemistry and  
>>> caused a drastic climate change, one that lead to the extinction of the  
>>> dinosaurs. And Snowball Earth theories involve the build-up of  
>>> greenhouse gases as the mechanism by which the earth eventually escaped  
>>> its frozen state.

>>>

>>> In short, it is simply untrue that history lacks precedent for  
>>> greenhouse-gas-driven warming. The precedents are there, as are the dire  
>>> warnings."

>>>

>>>

>>>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>>>> ultimate warming.

>>>>>

>>>> Then can you explain

>>>>

>>>> a) why the earth didn't continue to heat itself into oblivion

>>> What do you mean by oblivion? The earth has been very hot in the past.

>>> Luckily for us, the earth has lately come to a balance that currently

>>> favors our species.

>>>

>>> Clearly the balance at various times in earth's history would not always

>>> have been so favorable.

>>>

>>> The balance now is pretty good for humans, so let's not screw it up.

>>>

>>>

>>>> b) what caused the eventual cooling periods



>>> Which ones? There are many drivers of climate.  
>>>  
>>> This is an interesting article about ice ages:  
>>> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)  
>>>  
>>> We don't want that, either.  
>>>  
>>> The current problem we face is warming, and the data suggests human  
>>> produced greenhouse gases are contributing to that problem.  
>>>  
>>> Since we control what we produce, we have the opportunity and  
>>> responsibility to do something about it, for the sake of future  
>>> generations.  
>>>  
>>> Cheers,  
>>> -Jamie  
>>> [www.JamieKruz.com](http://www.JamieKruz.com)  
>>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
BS-polemic!

Posted by [Jamie K](#) on Mon, 02 Apr 2007 18:59:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:

> "Jamie K" <[Meta@Dimensional.com](mailto:Meta@Dimensional.com)> wrote in message [news:46113ede@linux...](mailto:news:46113ede@linux...)

>> Evidence supports (or doesn't support) theories. That's how science works.

>> In this case, he is saying the effects of CO2 explain the extent of

>> warming from those events. You can go to the link and read the rest of the

>> site for more clarification.

>>

>> Then get back to me on why we should ignore the evidence. I don't think we

>> should.

>>

>> Cheers,

>> -Jamie

>> [www.JamieKruz.com](http://www.JamieKruz.com)

>>

>

> I have never said ignore the evidence...but what I am concerned about is

> that you seem to feel that every piece of evidence that contradicts CO2 as

> the driving force behind Global Warming is nothing more than Oil Industry

> propoganda.

Science is based on theories that are tested. Disagreements are common.

A consensus comes from what the data supports. Some theories are

supported others are not.

Anything else is probably distortion from special interests. The sheer volume of distortion on this issue has been impressive.

From implications that climate scientists are so stupid they've overlooked other climate drivers (they haven't), to claims that any possible objection of the mainstream consensus is enough to cast into complete doubt years of research and mountains of data (nope).

- > Even within the very paper you quote it states that CO2 does not cause
- > Global Warming...it is a factor...but not the single driving force behind
- > Global Warming.

Don't confuse one event with another. In the past event discussed, the driver was not initially CO2, but CO2 was released by the beginnings of the event and it then contributed the major warming to that event.

In the current event, we are releasing CO2 (that was previously stored a long time ago in the earth), and our action is contributing to the current global warming event.

- > On a different note I was listening to a local talk show and the host quoted
- > some figures regarding CO2 reduction...one being that we could close down
- > all the Oil refineries in Alberta and all the manufacturing in Ontario and
- > we would only reduce our National CO2 output by less than 50% of the
- > required reductions mandated by the Kyoto accord. As to how accurate he was,
- > I can't say for sure but he is quoting from leading economists, scientists
- > etc.

Yet another distortion that is making the rounds. The "it's too late anyway so why bother" distortion.

The truth is no single solution will solve the problem. It's going to take a combination of solutions. Any solution by itself will look like a disaster.

From: <http://gristmill.grist.org/story/2007/1/24/18548/9954>

"Objection: The kind of drastic actions required to mitigate global warming risk the destruction of the global economy and the deaths of potentially billions of people.

Answer: Is this supposed to mean the theory of anthropogenic global warming must be wrong? You can not come to a rational decision about the reality of a danger by considering how hard it might be to avoid. First things first: understand that the problem is real and present.

Once you acknowledge the necessity of addressing the problem, taking action suddenly become less daunting. There is no point in discussing the best solutions or the cost of those solutions with someone who does not yet acknowledge the problem.

But even if mitigating global warming would be harmful, given that famine, droughts, disease, loss of major coastal cities, and a tremendous mass extinction event are on the table as possible consequences of doing nothing, it may well be we are faced with a choice between the lesser of two evils. I challenge anyone to conclusively demonstrate that such catastrophes as listed above await us if we try to reduce fossil fuel use.

Now, in terms of conservation and a global switch over to alternative fuels, the people who oppose doing this for climate change mitigation are forgetting something rather important. Fossil fuels are a non-renewable resource, and as such we have to make this global economic transformation regardless, whether now or a bit later. Many bright minds inside the industry think we are already at peak oil. So even if it turned out that climate mitigation was unnecessary, we would still be in a better place as a global society by making the coming switch sooner rather than later.

Seems like a win-win situation to me."

OK, onto the multiple solution topic: I posted this list of possible solutions before. It's worth checking out just for the idea that we can evaluate and choose the optimal combination of solutions:

"Humanity already possesses the fundamental scientific, technical, and industrial know-how to solve the carbon and climate problem for the next half-century.

over the next 50 years and limit atmospheric CO<sub>2</sub> to a trajectory that avoids a doubling of the preindustrial concentration. Every element in this portfolio has passed beyond the laboratory bench and demonstration project; many are already implemented somewhere at full industrial scale.

Although no element is a credible candidate for doing the entire job (or even half the job) by itself, the portfolio as a whole is large enough that not every element has to be used."

Here's their list - choose 7 to expand into solution "wedges":

1. Efficient vehicles
2. Reduced use of vehicles
3. Efficient buildings
4. Efficient baseload coal plants
5. Gas baseload power for coal
6. Capture CO2 at baseload power plant
7. Capture CO2 at H2 plant
8. Capture CO2 at coal-to-synfuels plant
9. Nuclear power for coal power
10. Wind power for coal power
11. PV power for coal power
12. Wind H2 in fuel-cell car for gasoline in hybrid car
13. Biomass fuel for fossil fuel
14. Reduced deforestation, plus reforestation
15. Conservation tillage

Much more info in the article:

<http://carbonsequestration.us/Papers-presentations/htm/Pacal-a-Socolow-ScienceMag-Aug2004.pdf>

- > So in essence we shut down our country's economy and we're still not even
- > 1/2 way to our 1990 CO2 levels...
- >
- > Something is wrong with this picture

Yes indeed. It is wildly incorrect.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

- >> Don Nafe wrote:
- >>> From your quoted source
- >>>
- >>> "During the glacial/interglacial cycles, temperatures and CO2
- >>> concentrations showed remarkable correlation. Closer examination reveals
- >>> that CO2 does not lead the temperature changes, but lags by many
- >>> centuries. Even so, the full extent of the warming can not be explained
- >>> without the effects of CO2. Though these cycles do not demonstrate that
- >>> greenhouse gas initiated warming, they do lend credence to the importance
- >>> of CO2 and CH4 in setting the planetary thermostat."
- >>>
- >>>

>>> Lending credence is not evidence...it is a theory  
>>>  
>>>  
>>>  
>>>  
>>> "Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
>>>> Don Nafe wrote:  
>>>>> "Jamie K" <Meta@Dimensional.com> wrote in message  
>>>>> news:461061e0@linux...  
>>>>> Thanks for checking out the article, Bill.  
>>>>>  
>>>>> The conclusion was that in the period of time discussed (way back  
>>>>> then) during that particular series of events (different circumstances  
>>>>> than now), even then, notice that CO2 was the major factor in warming.  
>>>>> There is evidence to the contrary that CO2 was the cause of any  
>>>>> previous warming periods.  
>>>>> What evidence is that?  
>>>>  
>>>> Should we ignore all the major evidence that CO2 was a contributor to  
>>>> previous warming events?  
>>>>  
>>>> Should we ignore the compelling evidence that CO2 is a primary cause of  
>>>> the current warming event?  
>>>>  
>>>> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>  
>>>>  
>>>> "Objection: In the geological record, it is clear that CO2 does not  
>>>> trigger climate changes. Why should it be any different now?  
>>>>  
>>>> Answer: Given the fact that human industrialization is unique in the  
>>>> history of planet earth, do we really need historical precedent for  
>>>> CO2-triggered climate change before we accept what we observe today?  
>>>> Surely it is not far-fetched that unprecedented consequences would  
>>>> follow from unprecedented events.  
>>>>  
>>>> But putting this crucial point aside, history does indeed provide some  
>>>> relevant insights and dire warnings.  
>>>>  
>>>> During the glacial/interglacial cycles, temperatures and CO2  
>>>> concentrations showed remarkable correlation. Closer examination reveals  
>>>> that CO2 does not lead the temperature changes, but lags by many  
>>>> centuries. Even so, the full extent of the warming can not be explained  
>>>> without the effects of CO2. Though these cycles do not demonstrate that  
>>>> greenhouse gas initiated warming, they do lend credence to the  
>>>> importance of CO2 and CH4 in setting the planetary thermostat.  
>>>>  
>>>> There are also events in geological history when sharp rises in  
>>>> temperature were initiated and driven by large spikes in greenhouse

>>>> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
>>>> Eocene Thermal Maximum is such a case. Roughly 55 million years ago,  
>>>> ocean pH levels dropped drastically and global temperatures rapidly rose  
>>>> over 5oC. The resolution of available proxy records indicates that this  
>>>> occurred in a period of time no longer than 5K years; it's not possible  
>>>> to know if it happened even faster. The likely cause was massive  
>>>> releases of methane from the ocean floors, perhaps due to some smaller  
>>>> warming or changes in sea level. It took over 100K years for the ocean,  
>>>> atmosphere, and temperatures to return to their previous state. The  
>>>> result was a mass extinction event that took millions of years to  
>>>> recover from.

>>>>  
>>>> We can also look at the formation of the Deccan Traps. In this case, a  
>>>> massive and sustained volcanic action altered atmospheric chemistry and  
>>>> caused a drastic climate change, one that lead to the extinction of the  
>>>> dinosaurs. And Snowball Earth theories involve the build-up of  
>>>> greenhouse gases as the mechanism by which the earth eventually escaped  
>>>> its frozen state.

>>>>  
>>>> In short, it is simply untrue that history lacks precedent for  
>>>> greenhouse-gas-driven warming. The precedents are there, as are the dire  
>>>> warnings."

>>>>  
>>>>  
>>>>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>>>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>>>>> ultimate warming.

>>>>>>  
>>>>>> Then can you explain

>>>>>>  
>>>>>> a) why the earth didn't continue to heat itself into oblivion  
>>>> What do you mean by oblivion? The earth has been very hot in the past.  
>>>> Luckily for us, the earth has lately come to a balance that currently  
>>>> favors our species.

>>>>  
>>>> Clearly the balance at various times in earth's history would not always  
>>>> have been so favorable.

>>>>  
>>>> The balance now is pretty good for humans, so let's not screw it up.

>>>>  
>>>>>> b) what caused the eventual cooling periods  
>>>> Which ones? There are many drivers of climate.

>>>>  
>>>> This is an interesting article about ice ages:  
>>>> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

>>>>  
>>>> We don't want that, either.



>>>>  
>>>> The current problem we face is warming, and the data suggests human  
>>>> produced greenhouse gases are contributing to that problem.  
>>>>  
>>>> Since we control what we produce, we have the opportunity and  
>>>> responsibility to do something about it, for the sake of future  
>>>> generations.  
>>>>  
>>>> Cheers,  
>>>> -Jamie  
>>>> www.JamieKruz.com  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 19:03:35 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:

> The current problem we face is warming, and the data suggests human  
> produced greenhouse gases are contributing to that problem.  
>  
> Since we control what we produce, we have the opportunity and  
> responsibility to do something about it, for the sake of future generations.  
>  
> Cheers,  
> -Jamie  
> www.JamieKruz.com  
>  
>  
> Well put Jamie

Thanks Don.

Cheers,  
-Jamie  
www.JamieKruz.com

> "Jamie K" <Meta@Dimensional.com> wrote in message news:46113adc@linux...  
>> Don Nafe wrote:  
>>> "Jamie K" <Meta@Dimensional.com> wrote in message news:461061e0@linux...  
>>>> Thanks for checking out the article, Bill.  
>>>>  
>>>> The conclusion was that in the period of time discussed (way back then)  
>>>> during that particular series of events (different circumstances than  
>>>> now), even then, notice that CO2 was the major factor in warming.

>>>

>>> There is evidence to the contrary that CO2 was the cause of any previous  
>>> warming periods.

>> What evidence is that?

>>

>> Should we ignore all the major evidence that CO2 was a contributor to  
>> previous warming events?

>>

>> Should we ignore the compelling evidence that CO2 is a primary cause of  
>> the current warming event?

>>

>> From: <http://gristmill.grist.org/story/2006/12/26/224933/67>

>>

>> "Objection: In the geological record, it is clear that CO2 does not  
>> trigger climate changes. Why should it be any different now?"

>>

>> Answer: Given the fact that human industrialization is unique in the  
>> history of planet earth, do we really need historical precedent for  
>> CO2-triggered climate change before we accept what we observe today?  
>> Surely it is not far-fetched that unprecedented consequences would follow  
>> from unprecedented events.

>>

>> But putting this crucial point aside, history does indeed provide some  
>> relevant insights and dire warnings.

>>

>> During the glacial/interglacial cycles, temperatures and CO2  
>> concentrations showed remarkable correlation. Closer examination reveals  
>> that CO2 does not lead the temperature changes, but lags by many  
>> centuries. Even so, the full extent of the warming can not be explained  
>> without the effects of CO2. Though these cycles do not demonstrate that  
>> greenhouse gas initiated warming, they do lend credence to the importance  
>> of CO2 and CH4 in setting the planetary thermostat.

>>

>> There are also events in geological history when sharp rises in  
>> temperature were initiated and driven by large spikes in greenhouse  
>> gases -- not unlike the fossil-fuel-emissions spike today. The Paleocene  
>> Eocene Thermal Maximum is such a case. Roughly 55 million years ago, ocean  
>> pH levels dropped drastically and global temperatures rapidly rose over  
>> 5oC. The resolution of available proxy records indicates that this  
>> occurred in a period of time no longer than 5K years; it's not possible to  
>> know if it happened even faster. The likely cause was massive releases of  
>> methane from the ocean floors, perhaps due to some smaller warming or  
>> changes in sea level. It took over 100K years for the ocean, atmosphere,  
>> and temperatures to return to their previous state. The result was a mass  
>> extinction event that took millions of years to recover from.

>>

>> We can also look at the formation of the Deccan Traps. In this case, a  
>> massive and sustained volcanic action altered atmospheric chemistry and

>> caused a drastic climate change, one that lead to the extinction of the  
>> dinosaurs. And Snowball Earth theories involve the build-up of greenhouse  
>> gases as the mechanism by which the earth eventually escaped its frozen  
>> state.

>>  
>> In short, it is simply untrue that history lacks precedent for  
>> greenhouse-gas-driven warming. The precedents are there, as are the dire  
>> warnings."

>>  
>>  
>>>> Even in cases where CO2 didn't happen first, the initial warming still  
>>>> lead to CO2 releases, and the CO2 then caused the majority of the  
>>>> ultimate warming.

>>>>  
>>> Then can you explain

>>>  
>>> a) why the earth didn't continue to heat itself into oblivion  
>> What do you mean by oblivion? The earth has been very hot in the past.  
>> Luckily for us, the earth has lately come to a balance that currently  
>> favors our species.

>>  
>> Clearly the balance at various times in earth's history would not always  
>> have been so favorable.

>>  
>> The balance now is pretty good for humans, so let's not screw it up.

>>  
>>  
>>>> b) what caused the eventual cooling periods  
>> Which ones? There are many drivers of climate.

>>  
>> This is an interesting article about ice ages:  
>> [http://en.wikipedia.org/wiki/Ice\\_age](http://en.wikipedia.org/wiki/Ice_age)

>>  
>> We don't want that, either.

>>  
>> The current problem we face is warming, and the data suggests human  
>> produced greenhouse gases are contributing to that problem.

>>  
>> Since we control what we produce, we have the opportunity and  
>> responsibility to do something about it, for the sake of future  
>> generations.

>>  
>> Cheers,  
>> -Jamie  
>> [www.JamieKruz.com](http://www.JamieKruz.com)

>  
>

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS  
-polemic!

Posted by [Don Nafe](#) on Mon, 02 Apr 2007 19:48:04 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

I wrote:

>> On a differnet note I was listening to a local talk show and the host  
>> quoted some figures regarding CO2 reduction...one being that we could  
>> close down all the Oil refineries in Alberta and all the manufacturing in  
>> Ontario and we would only reduce our National CO2 output by less than 50%  
>> of the required reductions mandated by the Kyoto accord. As to how  
>> accurate he was, I can't say for sure but he is quoting from leading  
>> economists, scientists etc.

you wrote:

> Yet another distortion that is making the rounds. The "it's too late  
> anyway so why bother" distortion.

>

And who says that what I wrote above is a distortion?

On one hand you expect me to accept that your position is undeniable and  
overwhelmingly supported by the scientific evidence yet when I suggest that  
there is possibility that living up to Kyoto could bankrupt the economy you  
immediatly call it a distortion.

And therein lies the dilema I have...the teapot calling the kettle black  
syndrome

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
BS-polemic!

Posted by [Jamie K](#) on Mon, 02 Apr 2007 20:19:44 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:

> I wrote:

>

>>> On a differnet note I was listening to a local talk show and the host  
>>> quoted some figures regarding CO2 reduction...one being that we could  
>>> close down all the Oil refineries in Alberta and all the manufacturing in  
>>> Ontario and we would only reduce our National CO2 output by less than 50%  
>>> of the required reductions mandated by the Kyoto accord. As to how  
>>> accurate he was, I can't say for sure but he is quoting from leading  
>>> economists, scientists etc.

>

> you wrote:

>

>> Yet another distortion that is making the rounds. The "it's too late

>> anyway so why bother" distortion.

>>

>

> And who says that what I wrote above is a distortion?

>

> On one hand you expect me to accept that your position is undeniable and  
> overwhelmingly supported by the scientific evidence yet when I suggest that  
> there is possibility that living up to Kyoto could bankrupt the economy you  
> immediately call it a distortion.

Whether Kyoto chooses the optimal set of solutions or not is a different subject. I haven't been proclaiming for or against Kyoto.

The distortion I'm referring to here is the notion that "it's too late so why bother." Whether you hear it from a radio show or a shill web site set up by the fossil fuels industry.

Anyone who is seriously arguing that position will have to show me data to support it. I haven't seen any reason to accept that defeatist attitude, other than protecting the status quo for one industries current business model.

What I have seen is the well supported position that a combination of solutions, engaged in now, has a good chance of making a worthwhile difference for future generations.

> And therein lies the dilemma I have...the teapot calling the kettle black  
> syndrome

Hah! That's it in a nutshell. That is the crux of the PR campaign.

Misinformation and amplifying of pretty much any objection into "hold it" status is the goal. To portray the science as if there's a huge controversy. To imply that scientists don't know enough. That the majority of climate scientists are ignorant bullies and finks, and probably hate your momma, while the few scientists who don't agree with the consensus, along with all the lobbyist supported PR flacks and radio talk show hosts are surely gallant unsung heros, bravely fighting for YOU.

These are exaggerations meant to help us say, "hey wait, we can't just go rushing off to fix the problem. Let's wait."

Bingo. Waiting is the goal of the fossil fuels lobby. That's all they want. Put it off.

And if we wait until it really is too late, too bad.

Cheers,  
-Jamie  
www.JamieKrutz.com

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS  
-polemic!

Posted by [Don Nafe](#) on Mon, 02 Apr 2007 22:46:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

First off - my apologies, I misunderstood your "its too late..." distortion statement

Secondly - my reply still stands...tea pot calling the kettle black (he said she said) - it is relevant

Thirdly - I'm glad we both agree this planet is on the fast track to hell

Fourthly - I'm glad we both agree there are workable solutions to these problems

Fifthly - I am glad we are able to agree to disagree and able to carry on a rational debate

and

Last but not least...I've enjoyed this discourse...I have learned a lot

"Jamie K" <Meta@Dimensional.com> wrote in message news:46116653\$1@linux...

> Don Nafe wrote:

>> I wrote:

>>

>>>> On a differnet note I was listening to a local talk show and the host  
>>>> quoted some figures regarding CO2 reduction...one being that we could  
>>>> close down all the Oil refineries in Alberta and all the manufacturing  
>>>> in Ontario and we would only reduce our National CO2 output by less  
>>>> than 50% of the required reductions mandated by the Kyoto accord. As to  
>>>> how accurate he was, I can't say for sure but he is quoting from  
>>>> leading economists, scientists etc.

>>

>> you wrote:

>>



>>> Yet another distortion that is making the rounds. The "it's too late  
>>> anyway so why bother" distortion.  
>>>  
>>  
>> And who says that what I wrote above is a distortion?  
>>  
>> On one hand you expect me to accept that your position is undeniable and  
>> overwhelmingly supported by the scientific evidence yet when I suggest  
>> that there is possibility that living up to Kyoto could bankrupt the  
>> economy you immediately call it a distortion.  
>  
> Whether Kyoto chooses the optimal set of solutions or not is a different  
> subject. I haven't been proclaiming for or against Kyoto.  
>  
> The distortion I'm referring to here is the notion that "it's too late so  
> why bother." Whether you hear it from a radio show or a shill web site set  
> up by the fossil fuels industry.  
>  
> Anyone who is seriously arguing that position will have to show me data to  
> support it. I haven't seen any reason to accept that defeatist attitude,  
> other than protecting the status quo for one industries current business  
> model.  
>  
> What I have seen is the well supported position that a combination of  
> solutions, engaged in now, has a good chance of making a worthwhile  
> difference for future generations.  
>  
>  
>> And therein lies the dilemma I have...the teapot calling the kettle black  
>> syndrome  
>  
> Hah! That's it in a nutshell. That is the crux of the PR campaign.  
>  
> Misinformation and amplifying of pretty much any objection into "hold it"  
> status is the goal. To portray the science as if there's a huge  
> controversy. To imply that scientists don't know enough. That the majority  
> of climate scientists are ignorant bullies and finks, and probably hate  
> your momma, while the few scientists who don't agree with the consensus,  
> along with all the lobbyist supported PR flacks and radio talk show hosts  
> are surely gallant unsung heros, bravely fighting for YOU.  
>  
> These are exaggerations meant to help us say, "hey wait, we can't just go  
> rushing off to fix the problem. Let's wait."  
>  
> Bingo. Waiting is the goal of the fossil fuels lobby. That's all they  
> want. Put it off.  
>  
> And if we wait until it really is too late, too bad.

>  
> Cheers,  
> -Jamie  
> www.JamieKrutz.com

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS  
-polemic!

Posted by [Don Nafe](#) on Mon, 02 Apr 2007 22:59:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Oh! and one more...probably the most important of them all

At least we are both doing something about it!

"Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote in message [news:461188fc@linux...](mailto:news:461188fc@linux...)

> First off - my apologies, I misunderstood your "its too late..."

> distortion statement

>

> Secondly - my reply still stands...tea pot calling the kettle black (he

> said she said) - it is relevant

>

> Thirdly - I'm glad we both agree this planet is on the fast track to hell

>

> Fourthly - I'm glad we both agree there are workable solutions to these

> problems

>

> Fifthly - I am glad we are able to agree to disagree and able to carry on

> a rational debate

>

> and

>

> Last but not least...I've enjoyed this discourse...I have learned a lot

>

>

>

>

> "Jamie K" <[Meta@Dimensional.com](mailto:Meta@Dimensional.com)> wrote in message [news:46116653\\$1@linux...](mailto:news:46116653$1@linux...)

>> Don Nafe wrote:

>>> I wrote:

>>>>

>>>>> On a different note I was listening to a local talk show and the host

>>>>> quoted some figures regarding CO2 reduction...one being that we could

>>>>> close down all the Oil refineries in Alberta and all the manufacturing

>>>>> in Ontario and we would only reduce our National CO2 output by less

>>>>> than 50% of the required reductions mandated by the Kyoto accord. As

>>>>> to how accurate he was, I can't say for sure but he is quoting from

>>>> leading economists, scientists etc.  
>>>  
>>> you wrote:  
>>>  
>>>> Yet another distortion that is making the rounds. The "it's too late  
>>>> anyway so why bother" distortion.  
>>>>  
>>>  
>>> And who says that what I wrote above is a distortion?  
>>>  
>>> On one hand you expect me to accept that your position is undeniable and  
>>> overwhelmingly supported by the scientific evidence yet when I suggest  
>>> that there is possibility that living up to Kyoto could bankrupt the  
>>> economy you immediately call it a distortion.  
>>  
>> Whether Kyoto chooses the optimal set of solutions or not is a different  
>> subject. I haven't been proclaiming for or against Kyoto.  
>>  
>> The distortion I'm referring to here is the notion that "it's too late so  
>> why bother." Whether you hear it from a radio show or a shill web site  
>> set up by the fossil fuels industry.  
>>  
>> Anyone who is seriously arguing that position will have to show me data  
>> to support it. I haven't seen any reason to accept that defeatist  
>> attitude, other than protecting the status quo for one industries current  
>> business model.  
>>  
>> What I have seen is the well supported position that a combination of  
>> solutions, engaged in now, has a good chance of making a worthwhile  
>> difference for future generations.  
>>  
>>  
>>>> And therein lies the dilemma I have...the teapot calling the kettle black  
>>>> syndrome  
>>  
>> Hah! That's it in a nutshell. That is the crux of the PR campaign.  
>>  
>> Misinformation and amplifying of pretty much any objection into "hold it"  
>> status is the goal. To portray the science as if there's a huge  
>> controversy. To imply that scientists don't know enough. That the  
>> majority of climate scientists are ignorant bullies and finks, and  
>> probably hate your momma, while the few scientists who don't agree with  
>> the consensus, along with all the lobbyist supported PR flacks and radio  
>> talk show hosts are surely gallant unsung heros, bravely fighting for  
>> YOU.  
>>  
>> These are exaggerations meant to help us say, "hey wait, we can't just go  
>> rushing off to fix the problem. Let's wait."

>>  
>> Bingo. Waiting is the goal of the fossil fuels lobby. That's all they  
>> want. Put it off.  
>>  
>> And if we wait until it really is too late, too bad.  
>>  
>> Cheers,  
>> -Jamie  
>> www.JamieKruz.com  
>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating  
BS-polemic!  
Posted by [Jamie K](#) on Mon, 02 Apr 2007 23:34:13 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Don Nafe wrote:  
> Oh! and one more...probably the most important of them all  
>  
> At least we are both doing something about it!

Here's to doing something! A lot of people are taking it seriously and working on solutions. Individuals, corporations, communities, states, and most countries.

The worldwide discussion is now about solutions. That's a very good thing.

I have to disagree with any inference that most climate scientists are ignorant finger-pointing pots or kettles with an ax to grind. They are, by and large, hard working, insightful, intelligent people following the data and testing rational theories, and making conclusions based on the evidence.

Conclusions based on scientific method and evidence are not mere "he said/she said" assertions. I think you'll find that most climate scientists are very careful to not overstate their conclusions. If someone makes a wild claim that the science is overstated, it's very likely they are misquoting or misunderstanding the conclusions - in some cases deliberately so in order to create a negative impression.

I do agree that well funded PR flacks starting with self-serving conclusions and working backwards to justify them in any way they can, even if it means distorting the science or exaggerating disagreements, are indeed pots and kettles both. Beware the FUD campaign, it is well funded and far reaching.

If you've ever sat in on a meeting with climate scientists (I have) you'll know that they will question each other intently on data, methodologies and conclusions. They will question each other and examine each other's work relentlessly. When conclusions make it through that sort of peer-reviewed gauntlet, we are wise to pay attention.

Thanks for the discussion, Don!

Cheers,  
-Jamie  
[www.JamieKruz.com](http://www.JamieKruz.com)

> "Don Nafe" <[dnafe@magma.ca](mailto:dnafe@magma.ca)> wrote in message [news:461188fc@linux...](mailto:news:461188fc@linux...)  
>> First off - my apologies, I misunderstood your "its too late..."  
>> distortion statement  
>>  
>> Secondly - my reply still stands...tea pot calling the kettle black (he  
>> said she said) - it is relevant  
>>  
>> Thirdly - I'm glad we both agree this planet is on the fast track to hell  
>>  
>> Fourthly - I'm glad we both agree there are workable solutions to these  
>> problems  
>>  
>> Fifthly - I am glad we are able to agree to disagree and able to carry on  
>> a rational debate  
>>  
>> and  
>>  
>> Last but not least...I've enjoyed this discourse...I have learned a lot  
>>  
>>  
>>  
>>  
>> "Jamie K" <[Meta@Dimensional.com](mailto:Meta@Dimensional.com)> wrote in message [news:46116653\\$1@linux...](mailto:news:46116653$1@linux...)  
>>> Don Nafe wrote:  
>>>> I wrote:  
>>>>  
>>>>> On a differnet note I was listening to a local talk show and the host  
>>>>> quoted some figures regarding CO2 reduction...one being that we could  
>>>>> close down all the Oil refineries in Alberta and all the manufacturing  
>>>>> in Ontario and we would only reduce our National CO2 output by less  
>>>>> than 50% of the required reductions mandated by the Kyoto accord. As  
>>>>> to how accurate he was, I can't say for sure but he is quoting from  
>>>>> leading economists, scientists etc.  
>>>> you wrote:

>>>>

>>>>> Yet another distortion that is making the rounds. The "it's too late  
>>>>> anyway so why bother" distortion.

>>>>>

>>>> And who says that what I wrote above is a distortion?

>>>>

>>>> On one hand you expect me to accept that your position is undeniable and  
>>>> overwhelmingly supported by the scientific evidence yet when I suggest  
>>>> that there is possibility that living up to Kyoto could bankrupt the  
>>>> economy you immediately call it a distortion.

>>> Whether Kyoto chooses the optimal set of solutions or not is a different  
>>> subject. I haven't been proclaiming for or against Kyoto.

>>>

>>> The distortion I'm referring to here is the notion that "it's too late so  
>>> why bother." Whether you hear it from a radio show or a skill web site  
>>> set up by the fossil fuels industry.

>>>

>>> Anyone who is seriously arguing that position will have to show me data  
>>> to support it. I haven't seen any reason to accept that defeatist  
>>> attitude, other than protecting the status quo for one industries current  
>>> business model.

>>>

>>> What I have seen is the well supported position that a combination of  
>>> solutions, engaged in now, has a good chance of making a worthwhile  
>>> difference for future generations.

>>>

>>>

>>>> And therein lies the dilemma I have...the teapot calling the kettle black  
>>>> syndrome

>>> Hah! That's it in a nutshell. That is the crux of the PR campaign.

>>>

>>> Misinformation and amplifying of pretty much any objection into "hold it"  
>>> status is the goal. To portray the science as if there's a huge  
>>> controversy. To imply that scientists don't know enough. That the  
>>> majority of climate scientists are ignorant bullies and finks, and  
>>> probably hate your momma, while the few scientists who don't agree with  
>>> the consensus, along with all the lobbyist supported PR flacks and radio  
>>> talk show hosts are surely gallant unsung heros, bravely fighting for  
>>> YOU.

>>>

>>> These are exaggerations meant to help us say, "hey wait, we can't just go  
>>> rushing off to fix the problem. Let's wait."

>>>

>>> Bingo. Waiting is the goal of the fossil fuels lobby. That's all they  
>>> want. Put it off.

>>>

>>> And if we wait until it really is too late, too bad.

>>>



>>> Cheers,  
>>> -Jamie  
>>> www.JamieKruz.com  
>>  
>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [dc\[3\]](#) on Mon, 02 Apr 2007 23:48:37 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

<http://www.desmogblog.com/slamming-the-climate-skeptic-scam>

Here is a very compelling version of what several of you have been presenting here. Well written, well-reasoned.

Now, read the comments.

What is important to me is that real scientists are raising real issues about this, and the global warming folks are not answering the issues, but are claiming consensus...

In other words, shutup.

It all begs the question of who is right, as does the "play it safe" crowd.

Consensus is not always right. Look at some of the presidents we have elected.

Politics is not science. Smear campaigns are not argument, and claiming consensus is an inadequate response to actual scientific arguments.

DC

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [Jamie K](#) on Tue, 03 Apr 2007 00:08:48 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Nice article, Don.

Scientific discussions are great. Heck, science is all about identifying problems, coming up with rational theories and then testing those theories, multiple times, to see what is true.

The reason there is a consensus on global warming is that questions have been raised, discussions held, a lot of research done and conclusions reached.

I wouldn't expect 100% agreement but the amount of agreement is quite high.

Research is ongoing, so anyone with a theory to test had best get on it.

Feeling like the mainstream is wrong? Bring out a new theory and test it. If data supports it, we have a new mainstream.

But after years of doing just that, the evidence is already strong enough to suggest three things. One, the planet is warming. Two, human causes explain it where other causes don't. Three, the risks to our species is high. And four, waiting for the last couple of scientists to be satisfied increases the risks far higher.

Since we know that most of the possible solutions have other benefits, it's no wonder that most governments have concluded we may as well get started.

Smear campaigns are not necessary between scientists because there is a better method. If a scientist has an alternate theory, it can be put to the test. It will succeed or fail.

Industry PR distortion campaigns are a huge distraction, but people can see through them eventually.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

DC wrote:

> <http://www.desmogblog.com/slamming-the-climate-skeptic-scam>

>

> Here is a very compelling version of what several of you have  
> been presenting here. Well written, well-reasoned.

>

> Now, read the comments.

>

> What is important to me is that real scientists are raising real  
> issues about this, and the global warming folks are not  
> answering the issues, but are claiming consensus...

>

> In other words, shutup.

>

> It all begs the question of who is right, as does the "play it safe"

> crowd.  
>  
> Consensus is not always right. Look at some of the presidents  
> we have elected.  
>  
> Politics is not science. Smear campaigns are not argument,  
> and claiming consensus is an inadequate response to actual  
> scientific arguments.  
>  
> DC  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating!  
Posted by [rick](#) on Tue, 03 Apr 2007 09:02:16 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

a feathered newt?

On Mon, 2 Apr 2007 14:08:49 +0200, "erlilo" <erlingl@tdcadsl.dk>  
wrote:

>...are you talking about some kind of which came first, as "the chicken or  
>the egg"?...  
>  
>erlilo  
>  
>"Bill Lorentzen" <bill@lorentzen.ws> skrev i en meddelelse  
>news:460fe430@linux...  
>  
>> A key question is: historically, which came first, the warming or the CO2  
>> increase? Who can unequivocally determine that?  
>>  
>> Bill  
>>  
>

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS  
-polemic!  
Posted by [Deej \[4\]](#) on Tue, 03 Apr 2007 17:01:32 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

They are,  
> by and large, hard working, insightful, intelligent people following the  
> data and testing rational theories, and making conclusions based on the  
> evidence.

>

I see less and less of this. Scientists, like everyone else, need a means to support themselves. they have to constantly churn out \*something\* in order to get paid by \*somebody\*.

I know some enviro activists around here who would starve to death if everything they lobbied for suddenly came true. They suddenly wouldn't have a pot to piss in and would have to actually get a job (gasp!!!) or would have to find something else wrong with something in order to justify their existence. Since getting a job would entail working for some evil \*capitalist\* or becoming one themselves, they aren't likely to do this. These types, IMHO, are easliy as culpable in our failure to address the energy catastrophe that is approaching as are those in the energy sector.

Deej

---

---

Subject: Re: OT - Global warming alternative opinion movie - fascinating BS-polemic!

Posted by [Jamie K](#) on Tue, 03 Apr 2007 18:33:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

DJ wrote:

> They are,

>> by and large, hard working, insightful, intelligent people following the

>> data and testing rational theories, and making conclusions based on the

>> evidence.

>>

>

> I see less and less of this. Scientists, like everyone else, need a means to

> support themselves. they have to constantly churn out \*something\* in order

> to get paid by \*somebody\*.

What do you mean you see less and less of this? Are you talking about climate scientists? Where and whom?

What is it about making a living that automatically implies selling out?

I'm not following you on that one but I'd like to.

However, I think the blanket demonizing of scientists has got to stop.

It's unfair, inaccurate and obviously a projective, diversionary tactic by special interests in this case. Better to recognize the problem, the risks and get to work on solutions.

BTW, I have a lot of respect for people in the long chain polymer economy. We just have to realize what our true costs are, recognize the

resource limitations of non-renewable economies, and be realistic about the cost/benefit analysis going forward.

- > I know some enviro activists around here who would starve to death if
- > everything they lobbied for suddenly came true. They suddenly wouldn't have
- > a pot to piss in and would have to actually get a job (gasp!!!) or would
- > have to find something else wrong with something in order to justify their
- > existence. Since getting a job would entail working for some evil
- > \*capitalist\* or becoming one themselves, they aren't likely to do this.
- > These types, IMHO, are easliy as culpable in our failure to address the
- > energy catastrophe that is approaching as are those in the energy sector.

So now who are you talking about? What organizations are actively standing in the way of their own success on their core issues?

I wouldn't expect this to be a defining problem. If a problem gets solved, then great! Move on to the next one. There is no shortage of problems that need attention.

I have met great people who strive to live up to laudable ideals in both corporations and non-profits.

Cheers,  
-Jamie  
[www.JamieKrutz.com](http://www.JamieKrutz.com)

- > Deej
  - >
  - >
-