

## Re: methane trapping

**Source:** <http://sci.tech-archive.net/Archive/sci.geo.geology/2004-06/0687.html>

---

**From:** Carsten Troelsgaard ([carsten.troelsgaard\\_at\\_mail.dk](mailto:carsten.troelsgaard_at_mail.dk))

**Date:** 06/17/04

Date: Thu, 17 Jun 2004 21:32:30 +0200

"DAH" <[dharter@bnl-dot-gov.no-spam.invalid](mailto:dharter@bnl-dot-gov.no-spam.invalid)> skrev i en meddelelse  
news:40d19e5a\$1\_2@127.0.0.1...

snip

- > *one might argue*
- > *convincingly, based upon the following data, that at least in the case*
- > *of Siberia, the conditions might favor it.*
- >
- > <http://www.netl.doe.gov/scng/hydrate/>

I tried your link, but it doesn't work. I've added a new one.

[http://www.netl.doe.gov/scng/hydrate/about-hydrates/about\\_hydrates.htm](http://www.netl.doe.gov/scng/hydrate/about-hydrates/about_hydrates.htm)

snip

- > *A high pressure environment is usually associated with clathrate*
- > *trapping of methane--like in the sediments on the floor of the*
- > *continental shelves, however, if permafrost forms a seal over a high*
- > *pressure gas reservoir, it would seem plausible for methane to be*
- > *forced interstitially into the permafrost ice.*

Gashydrates are stable at a combination of temperature and pressure: Above zero and under high oceanic pressure, or in arctic temperatures at shallow depth.

snip

- > *particularly in Siberia. I hadn't considered how much 'new' methane*
- > *would be released by thawing the subarctic bogs. Interesting point.*

I don't find that such a process will add to the pool of atmospheric methane – if I get you right.

- > *I will not be ready to trivialize the effect which the methane*
- > *released by the retreating permafrost will have on global warming,*

Re: methane trapping

sci.geo.geology: Re: methane trapping

- > until I know what happens to the methane when it is released. Does
- > the hydrologic cycle remove it from the atmosphere? Does aerosol
- > transport it? Could it achieve appreciable concentration in the
- > upper atmosphere?
- >
- > Can someone provide, or direct me to, specific information about the
- > dynamics of methane in the atmosphere?

Unfortunately I seem to have erased my links. One of them described a gigantic landslide on the Norwegian shelf reaching as far as the British isles – presumably due to a release of instable gas–hydrates. As Aidan I believe that the glacial lowstand/pressure relief is a better candidate for the process than melting of ice. And it may even add logic to a sudden rise in late glacial temperatures.

More on arctic gas–hydrates

[http://www.netl.doe.gov/scng/hydrate/conference\\_pdfs/JIP\\_Hunter\\_PrudhoeBay.pdf](http://www.netl.doe.gov/scng/hydrate/conference_pdfs/JIP_Hunter_PrudhoeBay.pdf)

And this German page has some additional links

<http://www.gashydrate.de/index.html>

Carsten

- > Aidan,
- > Yes, please, I would like to review the historical precedent which you
- > mention--the Late Paleocene. Do you have a publication reference?
- >
- > DAH 6/17/04
- >
- >
- > Posted Via Usenet.com Premium Usenet Newsgroup Services
- > -----
- > **\*\* SPEED \*\* RETENTION \*\* COMPLETION \*\* ANONYMITY \*\***
- > -----
- > <http://www.usenet.com>
- >
- >
- > ===== Posted via Newsfeed.Com – Unlimited–Uncensored–Secure Usenet
- News=====
- > <http://www.newsfeed.com> The #1 Newsgroup Service in the World! >100,000
- Newsgroups
- > ----- 19 East/West–Coast Specialized Servers – Total Privacy via Encryption
- =====