

13:42:54 From Peter MacKinnon to Everyone:

C: The Dominion Observatory was also on the Experiential Farm since ~1906 with Canada's longitude baseline on site still.

14:08:35 From Shabtai Bittman to Everyone:

C: Improving Your Soil: A Practical Guide to Soil Management for the Serious Home Gardener eBook : Reid, Keith: Amazon.ca: Kindle Store

14:17:52 From Claude Buettner to Everyone:

C: NOAA data on methane versus time in the mid Pacific (global average): https://gml.noaa.gov/ccgg/trends_ch4/

14:26:42 From Art Hunter - CACOR to Everyone:

Q: I have a question on methane emissions of gas/oil fields. Both live and abandoned.

14:32:35 From Paul Beckwith to Everyone:

Raymond, do you ever sleep?

14:45:34 From Dave Dougherty to Everyone:

Q: How complex is it to measure gas concentration at a surface or near-surface point and translate that into an emission rate?

14:46:25 From Dave Dougherty to Everyone:

Q: Is planting trees really a good way to reduce atmospheric CO2 concentrations?

14:47:12 From Dave Dougherty to Everyone:

Q: How long will forests sequester carbon that trees and other plants withdraw from the air? Does that depend on the species and ecosystems involved?

14:50:48 From Dave Dougherty to Everyone:

Q: If Canada expands its population by a factor of two, will not our total agricultural GHG emissions rise even if we use technology to lower emissions per animal and per crop-hectare.

14:53:16 From Paul Beckwith to Everyone:

Q: How much food storage is occurring in Canada? For example, with a huge crop failure one summer, would Canada have enough food for the winter without importing?

14:59:25 From Bharat Shrestha to Everyone:

C: Excellent presentation Ray. Thank you. I feel proud to be an NSERC research fellow with you in 2010-2013. And now working together in the Peace Region Living Lab to find missing component of the energy in the Northern Agriculture.

15:00:54 From Paul Beckwith to Everyone:

Q: Is there a good calculator for homeowners, like that for farmers. Homeowners puts dimensions of property, number of trees, and coverage of grass and gardens to get GHG sinks/sources?

15:00:54 From Claude Buettner to Everyone:

Raymond, I could only find this NZ farm calculator, not the one you mentioned:

<https://environment.govt.nz/what-you-can-do/agricultural-emissions-calculator/>

15:01:42 From Shabtai Bittman to Everyone:

Must exit, great talk and great work, as always. We need more work on mitigation and accounting for it. Aledo of great interest.

15:02:27 From Art Hunter - CACOR to Everyone:

Reminder that the Zoom meeting next week will be on Thursday afternoon at the request of the speaker.

15:03:26 From Ted Manning to Art Hunter - CACOR(Direct Message):

I am able to get on to other zooms and my camera and mic work fine on the, I think Jean is there to cover. I very much liked this presentation and will get in touch with him directly on a CoR initiative on "natural" ways on carbon offsets, reduction, or at least sustaining what we have.

15:11:36 From Dave Dougherty to Everyone:

This is the HOLOS calculator link.

<https://agriculture.canada.ca/en/agricultural-production/holos>

15:11:51 From Claude Buettner to Everyone:

Q: Would an increasing meat tax (similar to carbon tax) make more grain available to head off inevitable food inflation globally? Would you like to speculate what crisis could make this politically acceptable?

Phil, feel free to hold this question for the unrecorded session. (Paul's question is a great end for the recorded session.)

15:30:33 From Leena-Maija Laurén to Art Hunter - CACOR(Direct Message):

Thank you, Art and all! This was fascinating and totally new to me. I shall pass this information to our FiCor Board Member professor emerita Sirpa Kurppa, who has been in this agro-research field in her working life.

15:34:58 From Dave Dougherty to Everyone:

A review of in situ carbon mineralization in basalt.

<https://www.sciencedirect.com/science/article/pii/S1674775523003372>

Also, basalt spreading was submitted to the XPrize.

<https://www.xprize.org/prizes/carbonremoval>