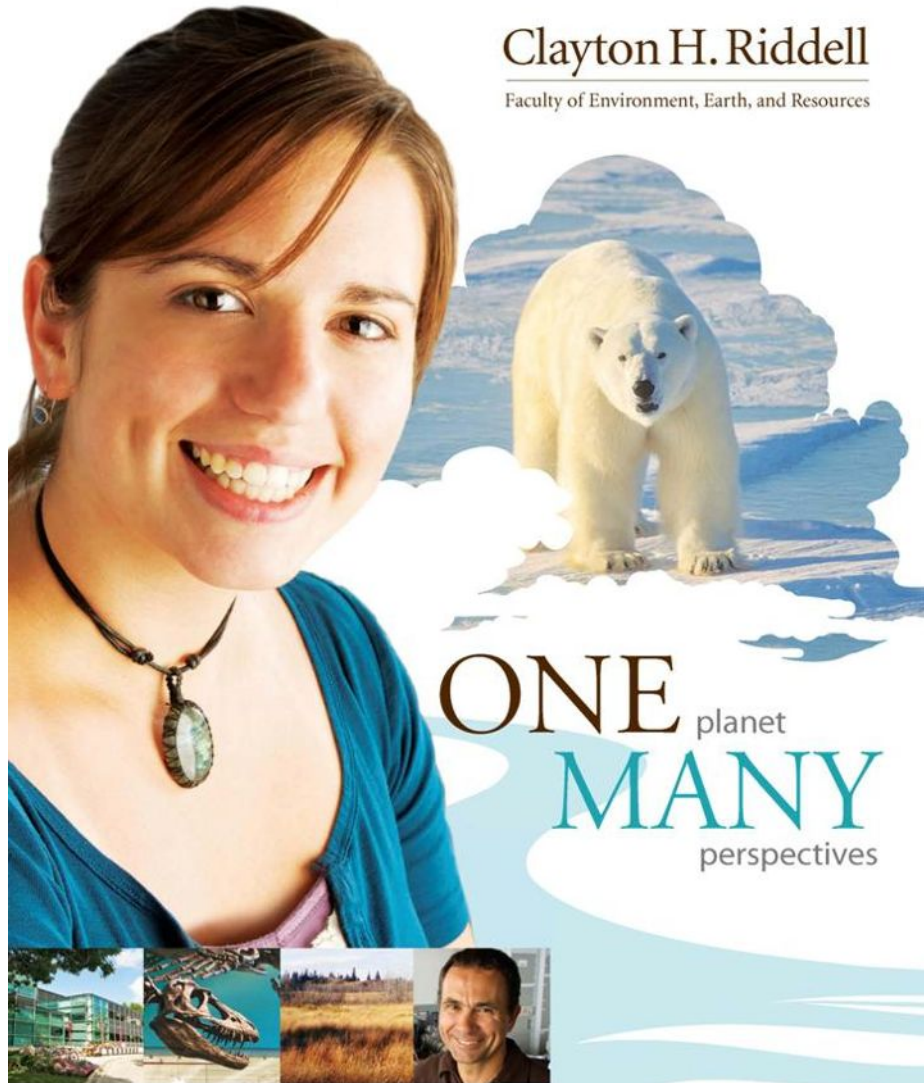


Clayton H. Riddell

Faculty of Environment, Earth, and Resources



ONE planet
MANY perspectives

International Collaborations

Professor David G. Barber

Canada Research Chair in Arctic System Science
CHR, Faculty of Environment, Earth and Resources
Director, Centre for Earth Observation Science
University of Manitoba.
Canada.



204 474-7252
umanitoba.ca/environment



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OF MANITOBA

One university. Many futures.

Arctic Staff at the University of Manitoba Centre for Earth Observation Science

Arctic System Science

Barber, David (CRC)
Berkes, Fikret (CRC)
Ferguson, Steve
Hanesiak, John
MacDonald, Robbie
Michel, Christine
Papakyriakou, Tim
Prinsenber, Simon
Stern, Gary
Stewart, Ronald

Materials Science

Bekker, Andrey
Camacho, Alfredo
Fayek, Mostafa (CRC)
Halden, Norm
Hawthorne, Frank (CRC)
Last, Bill
Reist, James
Wang, Feiyue

45 MSc, 47 PhD, 9 PDF, 17 RA, 27 Tech/admin = 145 HQP



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IPY-CFL (2007-2011)

Big Science.....

Countries with Institutions participating in CFL:



Canada, USA, China, Spain, Germany, Sweden, Norway, Russia, Belgium, France, Great Britain, Netherlands

\$40M, 4 years

\$11M in new CFI funds

International lead- Pan-AME

Strong northern partnerships

11 month field program

First time!

370 investigators

102 Senior Scientists

122 graduate students

46 technicians

35 Schools on Board

41 media

Countries of origin of CFL researchers and media:





Churchill, Manitoba is the only deep water port in North America



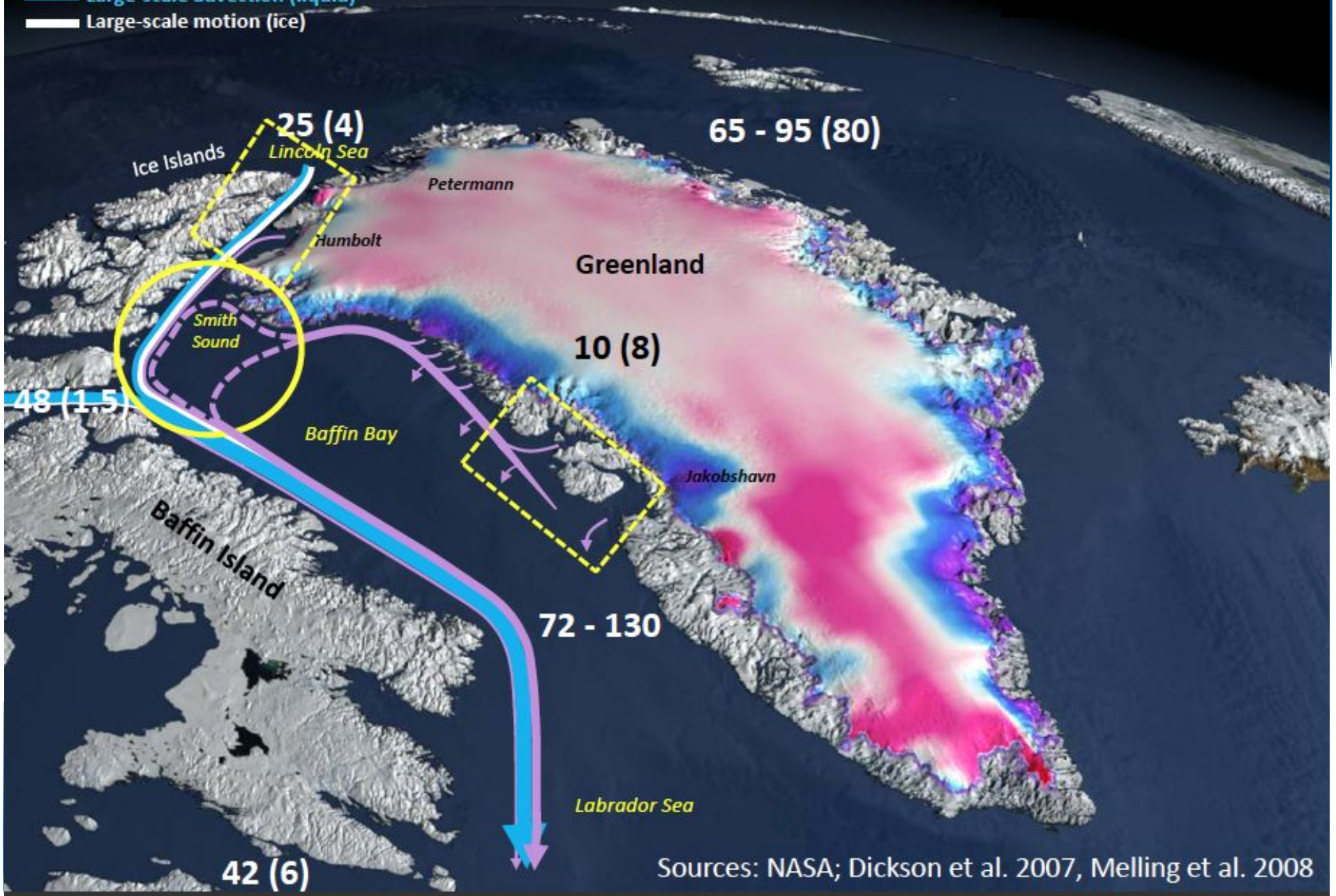
The Churchill Marine Observatory (CMO)



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Fresh-water fluxes (mSv)

- Glacial (liquid & ice)
- Large-scale advection (liquid)
- Large-scale motion (ice)



Sources: NASA; Dickson et al. 2007, Melling et al. 2008