

## **US Representatives**

- Robert Hawley (Dartmouth College)
- Melinda Webster (U. of Washington)
- Greta Wells (2021 IASC Fellow, U. Iceland)

## Scope

Glaciers, ice sheets, seasonal snow, sea ice, & permafrost\*

\*cross cutting with Terrestrial Working Group











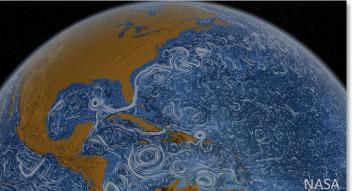
# **IASC** Critical Issues Being Discussed

- Improve knowledge of <u>past</u>, <u>current</u>, <u>&</u>
  <u>future Arctic cryospheric states</u> across
  spatial & temporal scales;
- 2. Advance understanding of <u>cryosphere</u>, <u>atmosphere</u>, <u>terrestrial</u>, <u>ocean</u>, & <u>biological interactions</u>;
- 3. Improve predictive capacity for <u>extreme</u> <u>cryospheric events</u>; and
- 4. Improve understanding of interactions between <u>cryosphere & human society</u>.











# **IASC** Current Activities

# Early career engagement through workshops & summer schools:

#### **Cryosphere-specific activities:**

- International Summer School in Glaciology,
- Juneau Icefield Research Program.

#### 13 cross-cutting activities:

- Interdisciplinary workshops on changing polar climate (science + education),
- Cryospheric hazards & societal impacts,
- Active early career involvement in ICARP IV & IPY planning.

#### Our priority areas of focus are

- Advance knowledge of cryosphere-biosphere-climate interactions,
- Interactions between changing cryosphere & Arctic communities.





## **Future Directions**

#### Which areas are on the horizon?

Near-term (ICARP IV) & long-term (5<sup>th</sup> IPY) planning:

- Build international collaborations,
- Bring different knowledge practices together,
- Support activities that help fill critical knowledge gaps:
  - Assessments,
  - Themed workshops.



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#### Is there anything PRB can do to support these areas?

- How can relationships built from past international collaborative efforts be sustained (i.e., MOSAiC)?
- Can mechanisms of all sizes be put into place to help facilitate international collaborative projects & logistical support?