YOPP-SH Meeting

Integrated social-science research to further the YOPP mission: The PPP-SERA task team

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on behalf of

the PPP-Societal & Economic Research & Applications (PPP-SERA) task team
Societal & Economic Research & Applications (SERA)

• Trans-disciplinary social sciences research to identify individual & group
  – Needs
  – Preferences,
  – Behaviours, and
  – Values
  ... in order to understand how they obtain, perceive, comprehend and use (polar) weather, water, and ice (WWI) information to facilitate decision-making.

• Focus: Explaining and anticipating human behaviour
Navigating Weather, Water, Ice and Climate Information for Safe Polar Mobilities
The user challenge

• Investments in polar observation, modelling and forecasting do not automatically benefit users
• User need is an elusive concept

• A more contextual understanding of use is needed
• A more iterative approach is needed
Defining usefulness

- **Useful:** meeting decision-making goals of actors within their respective roles and interests
- **Usable:** intuitive and can be implemented by actors, given technical literacy
- **Exchangeable:** unobstructed by institutional and infrastructural barriers

Information and interaction are ...

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(e.g. Zulkafli et al. 2017)
Understanding relevant decision contexts
YOPP Special Services Periods (SSPs)

Special Services Periods (SSP)

- Arctic
  - SOP1: Feb-Mar
  - SOP2: Jul-Sep

- Antarctic
  - SOP: Nov–Feb

Special Observing Periods (SOP)

Launch Event

Preparation Phase

YOPP Core Phase

YOPP Consolidation Phase
Special Services Periods

• Periods in which investments are made to stimulate researchers and operational forecasting centres
  – to tailor environmental forecasting services closer to end-user needs;
  – to exchange and promote key lessons from projects that focus on providing improved services delivery;
  – to learn how environmental forecasting services can be effectively improved in co-production with diverse groups of end-users.
Towards effective SSPs

- Identification & mapping
- Stimulation of investment
- Facilitation of exchange and learning
Antarctic Wx & Society Workshop

- Academic session at SCAR OSC plus side event
- Sharing operational lessons (tourism, environmental management, fisheries logistics & planning)
- Panel at COMNAP AGM?
- Other ideas?
Victoria Heinrich’s PhD Project

... on the use of weather information to inform best practice and education in decision-making in the Antarctic context

Aim 1: Understand user metacognition around use of weather & climate information

Aim 2: Define the Antarctic weather information value chain

- Qualitative and quantitative methods, incl. interviews & surveys
- Participants sought
  - Weather services professionals
  - Users of Antarctic weather information

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Thank you

Merci