WP 6
“Red Phone”

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Main Objectives

help protect Arctic and global residents from the hazards of potential future environmental emergencies

• Defining methods
  • establish a process starting with alerting research station staff to possible environmental emergencies via a one-stop-shop

• Sampling, sample processing
  • providing protocols on how to make infrastructure–wide observations and/or sampling
  • identifying laboratories to analyse resulting data and/or samples
  • identifying the pathways to ensure data reach appropriate environmental agencies and government departments that can respond to emergencies based on geographically comprehensive sampling
  • determining how samples should be transported

• Sustainability
  • How the developed system can be sustained in the long term?
Identifying problems

**Events** natural, man made, measurable, observable
- Infections: Human diseases, Animal diseases..
- Environmental indicators of climate change: temperature, precipitation, wind, duration of snow cover, mass balance of glaciers, climate gases...
- Pollution: air pollution (NOx, SOx, NH3...), mercury, radionuclides, other chemical contaminants (eg. after military activity), POP’s...

**Hazards** non-predictable, incidental, human-made
- volcanic ash eruptions, earthquake, tsunami, floods, oil spill, snow avalanches, slush avalanches, mud slides, tundra wildfire, permafrost thawing, glacier retreat (increased water level)...

**Consequences**
- biodiversity loss (species decrease/extinction, species expansion)
- habitat destruction/damage
- hunting & grazing ground lost/damage/decrease
- human settlement damage
- loss of life
- economic loss
Test

Select a particular type of potential (fictitious) hazardous event and perform a trial run of the red phone process to determine its efficacy and then refine the process as required.

- Determine the hazardous event - soon!
- Field trial - season 2018
- Does it work?
Outreach

InterAct website

- the types of hazardous extreme events likely in the North
- their potential impacts
- summary of how to act in popular science language