WP 6 – Rapid response to environmental emergency alerts

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Aim of the WP

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

- Identification and documentation of potential risks
- To establish cooperation with relevant organization and initiatives
- To establish a process starting with alerting research station staff and adjoining territories through the Arctic to possible environmental emergencies through providing protocols on how to make infrastructure-wide observations and/or sampling
Partners involved in the WP6

Jihočeská univerzita v Českých Budějovicích
University of South Bohemia
in České Budějovice

The University of Sheffield
Achievements so far

- The list of possible hazards from literature survey
- Most important hazards reported from the stations
- System analysis – identification of hazard to release of the data
- Implementation of a trial run
- Outreach - webpage draft
Achievements so far

**Trial run:** The determination of the prevalence of selected tick and mosquitoes-borne diseases in the Arctic

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**Droppings collection**

**MATERIAL LIST:** 1.5/15 or 50-ml tubes, laboratory gloves or plastic bags, toothpicks (or safety matches), RNAlater, pipette

1. Please write down the general information about the colony under study (animal species, numbers of individuals, locality, etc.) on the sheet.
2. Droppings must be collected as fresh as possible (still viscous, not dry).
3. Collect droppings into an empty 1.5-ml tube or into a tube containing RNAlater (can be provided upon request) using a new wooden toothpick or some similar object (e.g. a pipette tip). Never reuse the tool.

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Laboratory of Arbovirology at the Biology Centre of the CAS
Achievements so far

Otreach web page design

RAPID RESPONSE TO ENVIRONMENTAL EMERGENCY ALERTS

Link leading to a protocol for immediate reporting of any hazards and risks

Managing risks and hazards

The overall main objective of WP is to help protect Arctic and global residents from the hazards of potential future environmental emergencies such as release of radionuclides, contamination events from atmospheric deposition, volcanic ash, extreme climate events including possible severe ozone depletion, as well as spread of pathogens, disease and invasive species.

Environmental contaminants

Diseases

Non-native and range expanding species

Extreme events

Hazards

Ongoing Trial Runs
Achievements so far

**D6.1:** Report on the rapid response action plan (2018-09-30) – *in progress*

**D6.2:** Refined action plan including experience from a field trial (2019-03-31) – *in progress*

**D6.3:** Popular Science summary of the action plan and its importance published on the INTERACT web site and possible other publications such as media and schools (2020-03-31) – *in progress*
Added value

Started cooperation with relevant initiatives/organizations – ASCR, CLINF, NEON, GEO, AMAP etc..

Will start initiative to support shipment of samples across borders, which is currently either impossible or too slow due to the various administrative issues

Establishment of ethical policy for sharing samples, datasets and collaborative publications

Converting theoretical into practical trial run: Laboratory of Arbovirology at the Biology Centre of the CAS
No deviations from workplan!
Expected impacts

- Web page platform with easy accessible information about various possible risks
- Protocols for sampling
- Contacts for relevant organization/local authorities
- New baseline observations

- **Greatly added security for Northern Peoples**
Thanks for your attention

https://eu-interact.org/managing-risks/