



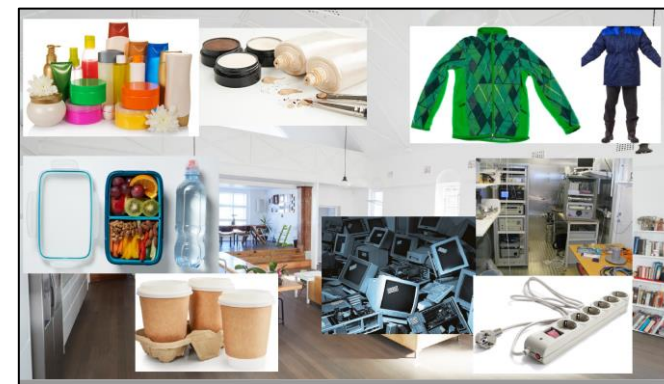
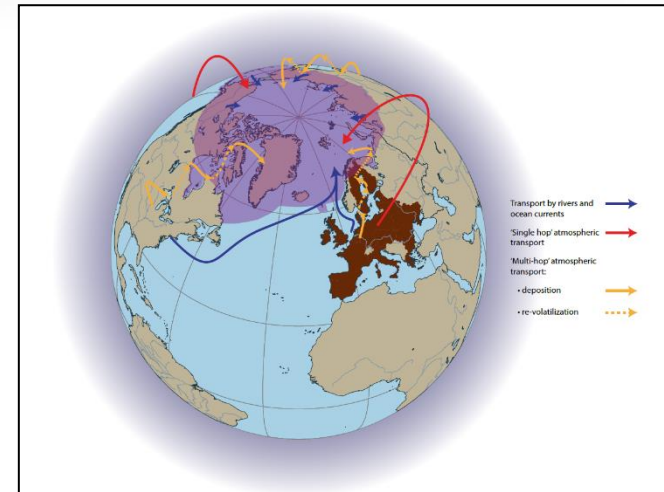
WP 8 Cleaner Arctic, cleaner world: documenting and reducing pollution

Simon Wilson
AMAP Secretariat

Aim of WP

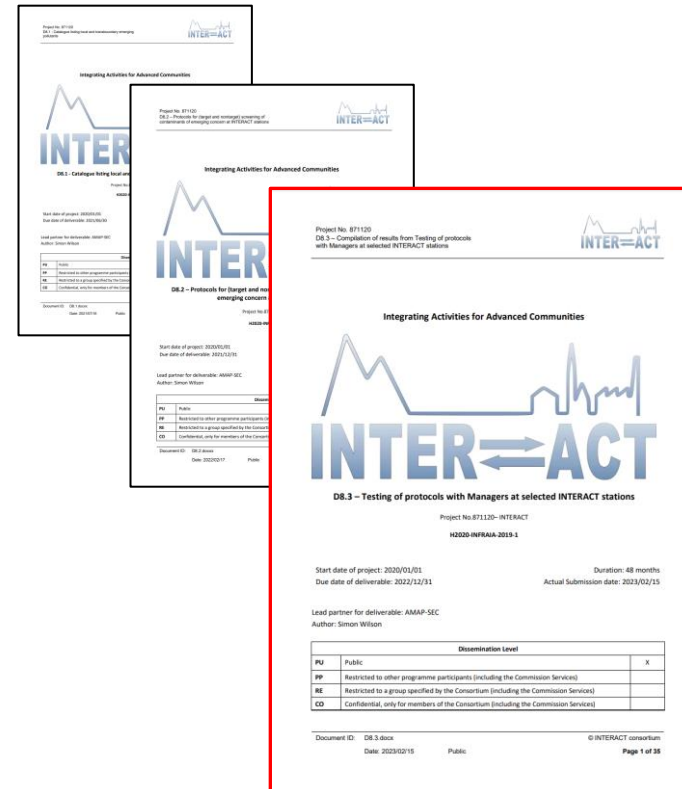
... **to work with station managers** to identify potential sources of emerging contaminants of concern and reduce their impacts by:

- Identifying/establishing screening monitoring protocols for emerging pollutants; field testing protocols at INTERACT stations
- Working with INTERACT station-managers/researchers to promote and support screening monitoring studies
- Refining existing systems at INTERACT stations to minimize introduction and use of new chemicals/pollutants of concern

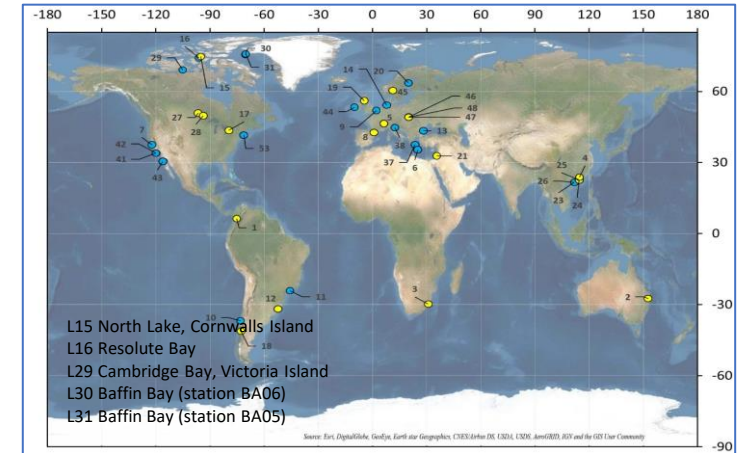
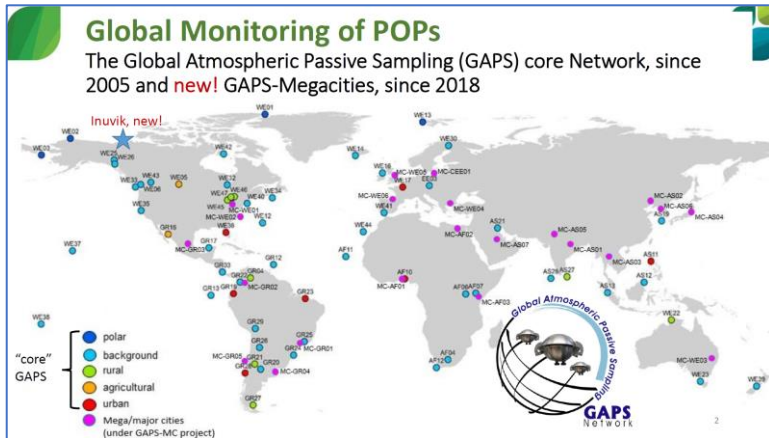


Progress made during the last year

- **D8.1** Catalogue listing local and transboundary emerging pollutants selected for possible (targeted) screening at INTERACT Stations
- **D8.2** Protocols for (target and non-target) screening of contaminants of emerging concern at INTERACT stations
- **D8.3** Compilation of results from testing of protocols with Managers at selected INTERACT Stations (includes Toronto workshop report)

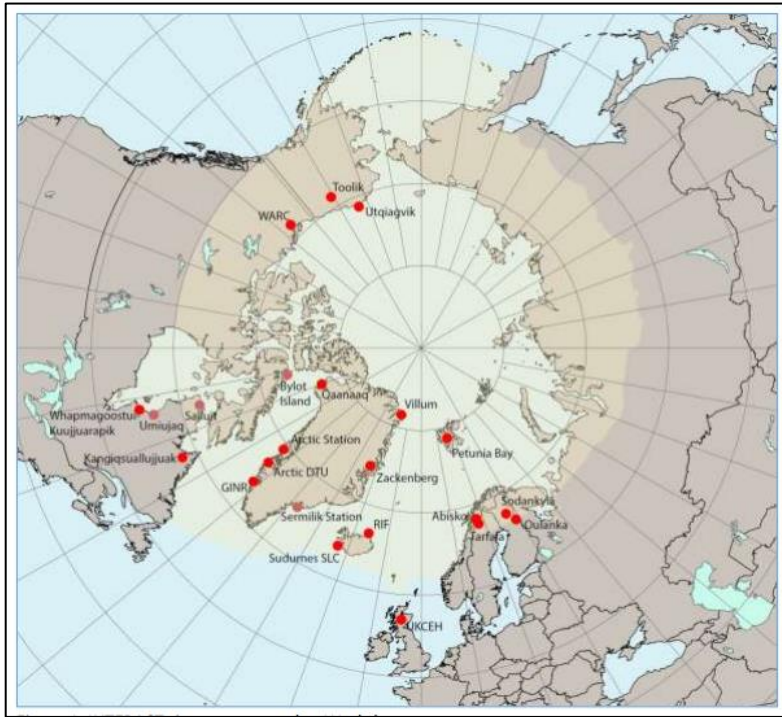


Progress made during the last year

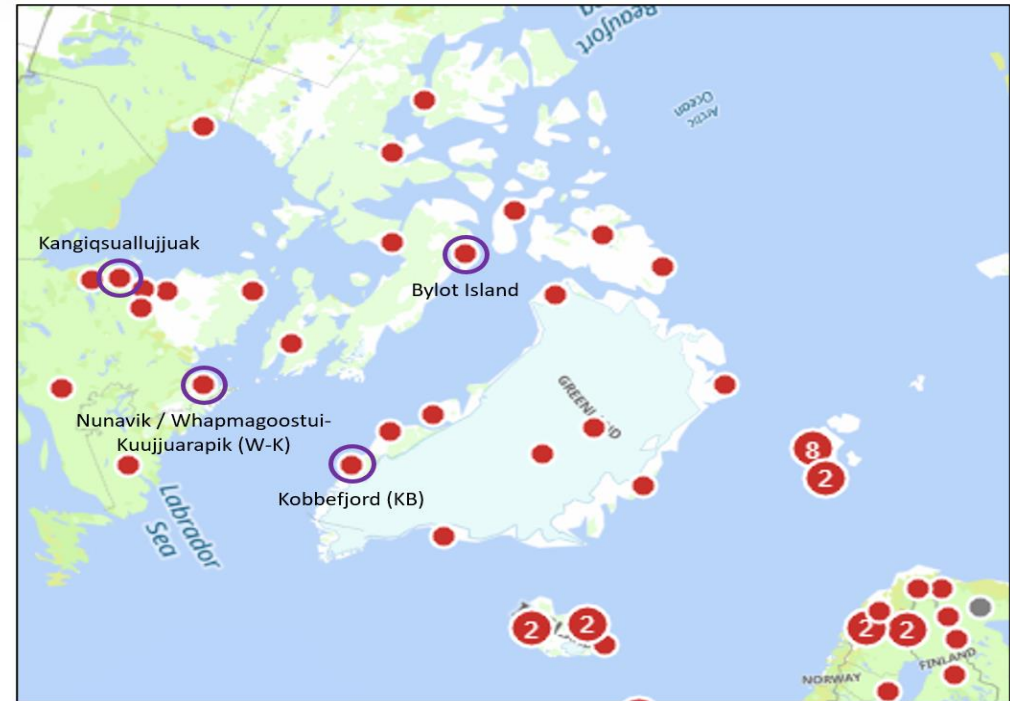


- Development of Protocols (passive sampler approaches)
- Workshop to promote engagement (2022)
- Practical implementation (2023-)
- Pilot deployment and feedback

Progress made during the last year



INTERACT sites interested in PS deployment



Sites added to GAPS Network (circled)
(CEN, GINR)

Progress made during the last year

GAPS Network Pilot Implementation at INTERACT Arctic Stations

Organized at the end of 2022, the GAPS Network began a pilot implementation of PUF-PAS sampling at INTERACT Arctic stations. This collaboration will address spatial gaps in coverage for the Arctic region. Four sites were selected. For each station, one sampler housing and three PUF disks (one for field blank) were shipped. Additional sampling materials were provided to establish a second sampling location further away from two stations. This will be used to assess potential local sources affecting POPs concentrations around the station. Two 6-month periods of sampling are expected for this pilot implementation. Sampling under period one began in early summer 2023 and is anticipated to conclude in Dec/January. The second sampling period will continue until early summer 2024.

Site Name	Sampler Location	Period 1 – Start ¹	Period 1 – End Period 2 – Start ²	Period 2 – End ²
Kangiqaulluajuak	Station	July 2023	Dec/January	Late June 2024
Kangiqaulluajuak	Remote	July 2023	Dec /January	Late June 2024
Nunavik / Whapmagoostui-Kuujjuarapik	Station	June 2023	Dec /January	Late June 2024
Nunavik / Whapmagoostui-Kuujjuarapik	Remote	June 2023	Dec /January	Late June 2024
Bylot Island ³	Station	July 2023	Dec / January ³	Late June 2024 ³
Kobbefjord (KB) (Greenland)	Station	October 2023	~April 2024	~October 2024

¹ Approximate based on email communications ² Anticipated dates ³ Depending on date of last access to site, period 1 may be shorter than shown above or the sampler may be deployed for a full year.

Progress made during the last year



AQUAGAPS deployment of water passive samplers: (Connection to INTERACT?)

- L15 North Lake, Cornwalls Island
- L16 Resolute Bay
- L29 Cambridge Bay, Victoria Island
- L30 Baffin Bay (station BA06)
- L31 Baffin Bay (station BA05)

Offer to arrange training on passive sampler deployment and sample handling
Funding requirements for sampler equipment (steel cages) and shipping

Requirements from others

Ongoing: Task 8.4 Informing appropriate agencies of potential threats from emerging pollutants

D8.4 Plan, in consultation with INTERACT Station Managers and Researchers, for development of screening monitoring networks and enhancing application of screening monitoring (due M42 >>> M48 >>> ?)

Progress made during the last year

- Coordination with WP2 (Station Managers Forum)
 - Facilitating contact with Station managers
 - Arrangement of webinars and workshop
 - Commenting on plastics handbook
- WP7 (Preparing for a future world: improving education and awareness at all societal levels)
 - Engagement with researchers interested in contaminants issues: Little progress to date

Ways forward

Last/Legacy Activities?

- Further deployment of PS at INTERACT stations?
- Additional sites? (3 key sites: Oulanka, CEN, Arctic Station; only CEN participating so far)
- Water PS (AQUAGAPS); re-allocation of resources (equipment, training)
- Field season 2024 – extension of period?
- Reflection on INTERACT experiences in work to update AMAP monitoring programme, GAPS, AQUAGAPS, other programmes?
- Funding issues >>> Project coordinator