INTAROS STEERING GROUP
27 MAY 2020

INTAROS

European Commission

STAKEHOLDERS

- Remaining activities
  - 3. stakeholder meeting
  - Stakeholder events in other wp's
    - WP4 ??
    - WP6
      - Task6.3 –maritime sector
      - Task 6.8 –fishery sector

INTAROS

European Commission

Stakeholders

- Suggestion
  - Establish a stakeholder task force involving all planned activities
    - Lead: ?? EuroGOOS??
  - Plan and perform stakeholder consultation(s)
    - One big meeting??
    - Sectorial meetings – physical/remote??
    - Selected representative stakeholders – visit/remote?
    - Questionnaire survey??
  - Report all results in one report – D1.7 due: 31.May 2021

INTAROS

European Commission

Stakeholders

- Focus groups
  - Private sector (stressed by reviewers)
    - Transport
    - Tourism
    - Fishery
    - Energy – oil, wind
    - Instrument producers
    - Service providers
  - Public administration and decision making
    - Environment – EEA, AMAP
    - Climate change
    - Fishery – ICES
    - Natural hazards
    - Met. Services
    - Ice services
  - Search and rescue
  - Science community
    - Copernicus services
    - ESA and EUMETSAT
    - EU Polar Expert Group
    - EU polar cluster projects
    - Research Infrastructures
    - Selected universities
  - Indigenous people organisations
  - International bodies
    - WMO, IOC/GOOS + ocean Decade, GEO, GCOS, GCW,

INTAROS

European Commission

Roadmap

- Roadmap
  - High level strategy for an Arctic Observing System in 2030
    - Vision
    - Meeting user needs
      - Societal benefit areas – SAON definitions
    - Present Arctic Observing System
    - Moving from present to future system
    - Getting data and information to users
    - Innovation, good practices and capacity building in Arctic Observing
      - Incl technology and communication development
    - Governance and partnership at Arctic Scale
    - 2030 – realizing the vision (funding, commitment)
    - European strategy/contribution towards the AOS vision

INTAROS

European Commission

Roadmap

- Cross cutting issues
  - Requirements – we shall deliver an updated requirement report September 2021 – needs to be coordinated with the roadmap work
  - Stakeholders – stakeholder work will provide some basic info
  - Indigenous component – often stressed – WP4 work important
  - SAON ROADS
    - Work needs to be well coordinated to avoid duplication of work, contradicting messages etc.
    - SAON can benefit on INTAROS
    - SAON will be the logical coordinating body in a AOS governance structure but lacks resources
  - Sustainability – transfer from research funding to sustained, coordinated fit-for-purpose observation systems

INTAROS

European Commission

Requirement report

- **Initial requirement report**
  - Phenomenon
  - Essential variables
  - Requirements for observations
  - Observing technology
  - Delivered May 2017
- **Revised requirement report**
  - High level requirements (see f.ex Arctic Ocean Decade workshop report)
  - Essential variables – link to ROADS + update
  - Observation requirements
    - resolution in time and space, quality, timeliness
      - Satellite
      - In situ – Copernicus in situ
  - Sustainability

INTAROS

European Commission

Example of data requirements in CIS[2]

Requirements for ocean data						
Name	Group	Uncertainty	Update Frequency	Timeliness	Horizontal resolution	Vertical resolution
Sea Surface Salinity	Ocean	Threshold: 0,1psu Breakthrough: 0,07psu Goal: 0,05psu	Threshold: 72d Breakthrough: 24d Goal: 6d	Threshold: 3d Breakthrough: 2d Goal: 1d	Threshold: 25km Breakthrough: 10km Goal: 5km	
Sea surface Temperature	Ocean	Threshold: 0,5K Breakthrough: 0,2K Goal: 0,1K	Threshold: 3d Breakthrough: 24h Goal: 6h	Threshold: 3h Breakthrough: 2h Goal: 1h	Threshold: 25km Breakthrough: 10km Goal: 5km	
Subsurface currents	Ocean	Threshold: 50cm/s Breakthrough: 20cm/s Goal: 10cm/s	Threshold: 3d Breakthrough: 1d Goal: 6h	Threshold: 3h Breakthrough: 2h Goal: 1h	Threshold: 100km Breakthrough: 50 km Goal: 10km	Threshold: 50m Breakthrough: 10m Goal: 1m
Subsurface salinity	Ocean	Threshold: 0,1psu Breakthrough: 0,07psu Goal: 0,05psu	Threshold: 12h Breakthrough: 3h Goal: 1h	Threshold: 1d Breakthrough: 6h Goal: 3h	Threshold: 30km Breakthrough: 5km Goal: 1km	Threshold: 100m Breakthrough: 10m Goal: 1m
Subsurface temperature	Ocean	Threshold: 1k Breakthrough: 0,5k Goal: 0,1k	Threshold: 24d Breakthrough: 3d Goal: 1d	Threshold: 3d Breakthrough: 1d Goal: 12h	Threshold: 50km Breakthrough: 10km Goal: 2km	Threshold: 50m Breakthrough: 10m Goal: 1m
Surface currents	Ocean	Threshold: 20cm/s Breakthrough: 10cm/s Goal: 5com/s	Threshold: 3d Breakthrough: 1d Goal: 12h	Threshold: 3d Breakthrough: 1d Goal: 6h	Threshold: 20km Breakthrough: 5km Goal: 1km	

INTAROS

European Commission

Roadmap and requirements Workshop

- Lessons learned from 3-4 years of INTAROS
  - User requirements, capacity and gaps
- Lessons from other activities/projects
  - EU projects
  - OSSE experiments
  - OceanOBS-19 and AOS 20 white papers
  - Copernicus
- Challenges towards a fit for purpose of Arctic Observing System
  - Requirements
  - Technology and communication
  - Sustainable funding
  - Free exchange of data
  - Governance/coordination
  - Involvement of indigenous communities
- European strategy/contribution

INTAROS

European Commission