

Agenda Sensor Web Training

20th October 2021 - 22nd October 2021

Day 1

13:30 - 14:00	Introduction into the workshop and of the participants	
14:00 - 14:30	Application Examples	
		Examples of applications build on Sensor Web technologies
		Hands-On: Using real-world examples of SWE services
14:30 - 15:00	Introduction of the relevant OGC specifications and data models -1-	
		OGC Observations and Measurements 2.0 Concepts (O&M)
15:00 - 15:15	Break	
15:15 - 15:45	Introduction of the relevant OGC specifications and data models -2-	
		O&M Implementations (Plain O&M, WaterML, INSPIRE, ...)
15:45 - 16:15	Introduction of the relevant OGC specifications and data models -3-	
		OGC Sensor Observation Service 2.0 (SOS)
16:15 - 16:30	Break	
16:30 - 18:00	Hands-on experience Sensor Web Server	
		Installation/Configuration
		Basic data loading with transactional workflows and data retrieval (SOS)

Day 2

08:30 - 10:00	Hands-on session	
		Hands-on advanced SOS examples
		Hands-on Helgoland Viewer
10:00 - 10:15	Break	
10:15 - 11:45	Introduction of the relevant OGC specifications and data models -4-	
		OGC Sensor Model Language (SensorML)
		Interactive Session: What are your sensors and how to model them in SensorML?
		OGC SensorThings API Part 1: Sensing (STA)
11:45 - 12:00	Break	
12:00 - 13:00	Hands-on SensorThings API	
		Installation
		Example requests
13:00 - 14:00	Break	
14:00 - 15:00	Deployment of Sensor Web Servers	
		52°North Sensor Web Server
		Deployment strategies
15:00 - 15:15	Break	
15:00 - 17:00	Data Loading strategies	
		52°North SOS Importer (CSV)
		SensorThings API functionality (MQTT)
		Overview of other workflow (e.g. ETL tools)
		Break (15 minutes)

	Hands-on 52°North SOS Importer (CSV)
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Day 3

09:00 - 09:30	Hands-on sos4R	
09:30 - 12:30	Interactive Session on Data Modelling	
		"Paper" Hands-On: How to map your data to the 52°North Sensor Web data model?
		Break (30 minutes)
		Discussion of how to map example data from the participants to the Sensor Web model
12:30 - 13:00	Strategies for Application Development	