## Geospatial Sensing | Virtual 2020 Program

**Monday, August 31st**

### Day 1: Tutorial Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speakers/Institutions</th>
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<tbody>
<tr>
<td>08:30 - 09:30</td>
<td>Check In/ Service Desk</td>
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</table>
| 09:30 - 11:00 | Introduction to Sensor Web Technologies  
 (Simon Jirka, 52°North) | Web Processing - Standardization and Cloud Concepts  
 (Matthes Rieke, Benjamin Pross 52°North) |
| 11:00 - 11:30 | Virtual Coffee Break                                                   |                                        |
| 11:30 - 13:00 | Accessing environmental time-series data for data analysis  
 (Benedikt Gräler, 52°North) | Sensor Data Streams in ArcGIS  
 (Thomas Paschke, Esri) |
| 13:00 - 14:00 | Lunch                                                                  |                                        |
| 14:00 - 15:30 | Analyzing Multi-Variable Earth Observation Data Cubes  
 (Marius Appel, University of Münster) | Introduction to FME-based Data Processing Services  
 (Marcel Sprotte, con terra) |
| 20:00     | Icebreaker                                                             |                                        |

### Tuesday, September 1st

**Day 2: Conference**

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<td>08:30 - 09:00</td>
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<tr>
<td>09:00 - 09:15</td>
<td>Welcome and Introduction</td>
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| 09:20 - 09:50 | Keynote: Enable true multidisciplinary applications in the emerging research e-infrastructures through geospatial standards  
 Joan Masó (CREAF, Ecological and Forestry Applications Research Centre) |                                        |
| 09:55 - 10:15 | API4INSPIRE: Facilitating access to INSPIRE data through standard-based Application Programming Interfaces  
 Jürgen Moßgrabcr (Fraunhofer IOSB) |                                        |
| 10:20 - 10:40 | Using IoT standard for push-based communication of hydrological data  
 Christian Malewski (Wupperverband) |                                        |
| 10:45 - 11:05 | Open and Standardized Technologies for Accessible Smart Farming  
 David Gackstetter (TU München) |                                        |
| 11:05 - 11:30 | Virtual Coffee Break                                                   |                                        |
| 11:35 - 11:55 | Distributed services for enabling the automated processing of Big Earth Observation Data  
 Sebastian Drost (Hochschule Bochum) |                                        |
| 12:00 - 12:20 | Synergetic use of Planet data and high-resolution aerial images for windthrow detection based on Deep Learning  
 Melanie Brandmeier (Esri Deutschland) |                                        |
| 12:25 - 13:00 | Flash talks @5 Min Building an API for real time transit data  
 (Dennis Wilhelm, con terra) | TISDAR - The Thünen-Institute Spatial Data Repository  
 (Florian Hoedt, Thünen Institute) |
|           | Monitoring in-situ ocean water quality in South Africa: An OGC SensorThings application  
 (Derek Hohls, CSIR) | Integration of Raster Time Series with the Sensor Web  
 (Christian Malewski, Wupperverband) |
|           | Seamless Integration of Pixel Time Series in the Sensor Web  
 (Benedikt Gräler, Eike Hinderk Jürrens 52°North) | (Marius Appel, IFGI, University of Münster) |
| 13:00 - 13:55 | Lunch Break                                                            |                                        |
| 14:00 - 14:20 | Containerized Web Processing Services – Why you want that (and why not)  
 Nils Brinckmann (GFZ) |                                        |
| 14:25 - 14:45 | How to evaluate and reduce the complexity of geospatial provenance graphs?  
 Arne Rümmler (TU Dresden) |                                        |
| 14:50 - 15:10 | Predicting into unknown space? Estimating the area of applicability of spatial prediction models  
 Hanna Meyer (IFGI, University of Münster) |                                        |
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| 15:15 - 15:35 | Cloud-based web service for outlier analysis in environmental time series served via SOS  
Doron Goldfarb (Environment Agency Austria (EAA)) |
| 15:35 - 16:00 | Virtual Coffee Break                                                  |
| 16:05 - 16:25 | An Automated Assessment of the FAIRness of Research Data  
Anusuriya Devaraju (MARUM - University of Bremen) |
| 16:30 - 16:50 | Supporting Spatio-temporal Data Exploration with Intuitive and Efficient Visualizations  
Christin Henzen (TU Dresden) |
| 16:55 - 17:15 | Interoperable Provision of Research Vessel Tracking Data via OGC SensorThings API and Sensor Observation Service  
Christian Autermann (52°North) |
| 17:15 - 17:25 | Closing Statement  
Simon Jirka (52°North) |

**Wednesday, September 2nd**

**Day 3: Workshop: Research Data Infrastructures - A means for collaboration science**

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| 09:00 - 09:10 | Welcome and Introduction  
Andreas Wytzisk-Arens (Hochschule Bochum) |
| 09:10 - 09:30 | The NFDI4Earth journey: Diversity and common ground in Earth System Sciences  
Peter Braesicke (Karlsruher Institut für Technologie - IMK-ASF) |
| 09:30 - 09:50 | NFDI4Agri - Unlocking the agricultural data silos  
(Florian Hoedt, Thünen Institute) |
| 09:50 - 10:05 | Brief statements/contributions from attendees                        |
| 10:05 - 10:50 | Open Discussion                                                       |
| 10:50 - 11:00 | Wrap Up  
Andreas Wytzisk-Arens (Hochschule Bochum) |