



Using Earth Observation for Water Quality Monitoring

Workshop Programme

Day 1: Tuesday 13 th October	
13:00	Chair: Emily Sym, Joint Nature Conservation Committee <i>Introduction to workshop</i>
Session 1: Monitoring water quality from space – challenges and opportunities	
13:10	Christine Maggs, Joint Nature Conservation Committee <i>Environmental and policy context for water quality monitoring</i>
13:30	Carsten Brockmann, Brockmann Consult <i>Copernicus sensors, data and products</i>
14:10	Questions See 'Information for Attendees' handout for how to ask questions via MeetingPulse
14:30	Break
Session 2: Marine applications	
14:45	Lauren Biermann, Plymouth Marine Laboratory <i>Marine litter and plastic pollution</i>
15:00	Andrey Kurekin, Plymouth Marine Laboratory <i>Oil spill detection using radar satellite imagery</i>
15:15	Mickaël Vasquez, Ifremer and EMODnet Seabed Habitats <i>Using Earth Observation products in seabed habitat mapping</i>
15:30	Questions
15:45	Break
15:55	Keith Cooper, Cefas <i>Monitoring sediment disturbance using Sentinel-2</i>
16:10	Shubha Sathyendranath, Plymouth Marine Laboratory <i>Ocean Colour Climate Change Initiative (OC-CCI) Essential Climate Variable</i>
16:25	Mike Best, Environment Agency <i>Using Sentinel-3 products for detecting eutrophication and harmful algal blooms</i>
16:40	Questions
17:00	Session close

Day 2: Wednesday 14 th October	
13:00	Chair: Paula Lightfoot, Joint Nature Conservation Committee <i>Introduction to second day</i>
Session 3: Freshwater applications	
13:10	Andrew Tyler, University of Stirling <i>Response of lakes to climate change – the GloboLakes project</i>
13:25	Evangelos Spyrakos, University of Stirling <i>Using earth observation to monitor cyanobacteria</i>
13:40	Questions
13:55	Break
14:05	Claire Neil, Scottish Environment Protection Agency <i>Monitoring eutrophication using a chlorophyll-a product derived from Sentinel-2</i>
14:20	Stefan Simis, Plymouth Marine Laboratory <i>Integrating satellite remote sensing and in situ monitoring in Water Framework Directive waterbodies (MONOCLE project)</i>
14:35	Christopher Merchant, University of Reading <i>Climate Change Initiative Essential Climate Variables for Lakes</i>
14:50	Questions
15:05	Break
Session 4: Future developments	
15:15	Steve Greb, Geo AquaWatch <i>EO for water quality monitoring – the global perspective and future opportunities</i>
15:30	Tiago Silva, Cefas <i>Benefits of data cubes for water quality monitoring</i>
15:45	Andrew Tyler, University of Stirling <i>Living Laboratory prototype for Forth Valley – combining EO with Internet of Things and Artificial Intelligence</i>
16:00	Steve Groom, Plymouth Marine Laboratory <i>CERTO – harmonising water quality products from oceans to freshwater</i>
16:15	Questions
16:30	Break
16:40	Discussion: <i>Innovation through to impact – linking policy priorities to R&D</i> Introduction by Jon Hicks, Defra Earth Observation Centre of Excellence
17:30	Workshop close