

Advanced Training Course in Ocean Remote Sensing

7-11 September 2015, French Research Institute for Exploitation of the Sea, IFREMER, Brest, France

Programme

Day 1 - Monday 7 September 2015		
OPENING SESSION		
08:30	Bus departure from Brest Apart'City Hotel to Ifremer	
09:00 - 09:45	Registration	
09:45 - 10:15	Official Welcome	
	Overview of the Training Course: Practical aspects, organisation and logistics	Bertrand Chapron <i>(Ifremer)</i> Peter Regner <i>(ESA)</i>
10:15 - 11:00	Oceanography from Space Part 1 (Conference Room)	Bertrand Chapron <i>(Ifremer)</i>
11:00 - 11:30	Break (Hall of the Conference Room)	
11:30 - 12:15	Oceanography from Space Part 2 (Conference Room)	Bertrand Chapron <i>(Ifremer)</i>
12:15 - 13:00	ESA EO Missions and their Exploitation for Science & Applications (Conference Room)	Yves-Louis Desnos <i>(ESA)</i>
13:00 - 14:00	Lunch Time (Ifremer Restaurant)	
14:15 - 15:00	The SMOS Mission (Conference Room)	Nicolas Reul <i>(Ifremer)</i>
15:00 - 15:45	Ocean Salinity with SMOS (Conference Room)	Nicolas Reul <i>(Ifremer)</i>
15:45 - 16:15	Break (Hall of the Conference Room)	
16:15 - 18:00	PRACTICAL – Sea Surface Salinity from SMOS (Group 1: Ocean Room / Group 2: Lapérouse Room)	Carsten Brockmann & Ana Ruescas <i>(Brockmann Consult)</i>
18:15 - 19:30	Ice Breaker Venue: IFREMER (Salon de la Rade)	
19:30	Bus departure for Brest city center (Salon de la Rade)	

Day 2 – Tuesday 8 September 2015		
Ocean Colour & Retrievals		
08:30	<i>Bus departure from Brest city Hotel to Ifremer</i>	
09:00 - 09:40	Principles of Ocean Colour remote sensing (Conference Room)	David Doxaran <i>(LOV)</i>
09:40 - 10:20	Ocean colour retrievals in Case 1 waters (Conference Room)	David Doxaran <i>(LOV)</i>
10:30 - 11:00	<i>Break (Hall of the Conference Room)</i>	
11:15 - 12:45	PRACTICAL 1: Sentinel-3 Toolbox principles & Ocean Colour data (Group 1: Ocean Room / Group 2: Lapérouse Room)	Carsten Brockmann & Ana Ruescas <i>(Brockmann Consult)</i>
13:00 – 14:00	<i>Lunch Time (Ifremer Restaurant)</i>	
14:15 - 15:00	Coastal Water Algorithms (Conference Room)	David Doxaran <i>(LOV)</i>
15:00 – 15:45	Validation of Ocean Colour Data (Conference Room)	Carsten Brockmann <i>(Brockmann Consult)</i>
15:45 - 16:15	<i>Break (Hall of the Conference Room)</i>	
16:30 - 18:00	PRACTICAL 2: Exercises with Sentinel-3 Toolbox using MERIS data (Group 1: Ocean Room / Group 2: Lapérouse Room)	Carsten Brockmann & Ana Ruescas <i>(Brockmann Consult)</i>
18:15	<i>Bus departure for Brest city center (near Ifremer Restaurant)</i>	

Day 3 – Wednesday 9 September 2013		
Geophysical Parameters from Radar Altimeters		
08:30	Bus departure from Brest city Hotel to Ifremer	
09:00 - 09:40	Principles of Radar Altimetry (Conference Room)	Paolo Cipollini (NOC)
09:40 - 10:20	Altimeter data processing (Conference Room)	Paolo Cipollini (NOC)
10:30 - 11:00	Break (Hall of the Conference Room)	
11:15 - 12:45	PRACTICAL: Sentinel 3 Altimeter Toolbox (Group 1: Ocean Room / Group 2: Lapérouse Room)	Albert Garcia-Mondéjar Roger Escolà (isardSAT)
13:00 - 14:00	Lunch Time (Ifremer Restaurant)	
14:15 - 15:45	PRACTICAL: Sentinel 3 Altimeter Toolbox (Group 1: Ocean Room / Group 2: Lapérouse Room)	Albert Garcia-Mondéjar Roger Escolà (isardSAT)
16:00 - 16:30	Break (Hall of the Conference Room)	
16:45 - 17:30	Applications of altimetry over the ocean and coastal zone (Conference Room)	Paolo Cipollini (NOC)
18:15	Bus departure for Brest city centre	
19:00 - 20:00 20:00 - 21:45	Social Event – Oceanopolis visit Buffet dinner at Oceanopolis	
22:00	Bus departure for Brest city centre	

Day 4 – Thursday 10 September 2015		
Geophysical parameters from SARs		
08:30	<i>Bus departure from Brest city Hotel to Ifremer</i>	
09:00 - 09:40	SAR Instrument Principles, Imaging Mechanisms and Processing (Conference Room)	Johnny Johannessen <i>(NERSC)</i>
09:40 - 10:20	Using SAR for Ocean Applications (Conference Room)	Johnny Johannessen <i>(NERSC)</i>
10:30 - 11:00	<i>Break (Hall of the Conference Room)</i>	
11:15 - 12:45	PRACTICAL 1: SAR Processing and Analyses Tools (Group 1: Ocean Room / Group 2: Lapérouse Room)	Fabrice Collard <i>(OceanDataLab)</i> Romain Husson <i>(CLS)</i>
13:00 - 14:00	<i>Lunch Time (Ifremer Restaurant)</i>	
14:15 - 15:00	Synergy between Optical, Infrared and Microwave Sensors for Ocean Remote Sensing Applications (Conference Room)	Johnny Johannessen <i>(NERSC)</i>
15:00 - 15:45	The Marine Component of ESA's Ocean Climate Change Initiative (Conference Room)	Johnny Johannessen <i>(NERSC)</i>
16:00 - 16:30	<i>Break (Hall of the Conference Room)</i>	
16:45 - 18:15	PRACTICAL 2: Tools applied to SAR images (Group 1: Ocean Room / Group 2: Lapérouse Room)	Fabrice Collard <i>(OceanDataLab)</i> Romain Husson <i>(CLS)</i>
18:30	<i>Bus departure for Brest city centre (near Ifremer Restaurant)</i>	

Day 5 - Friday 11 September 2015		
Sea Surface Temperature (SST)		
08:30	<i>Bus departure from Brest city Hotel to Ifremer</i>	
09:00 - 10:00	Measuring SST from Space (Conference Room)	Gary Corlett <i>(Univ. of Leicester)</i>
10:00 - 10:30	<i>Break (Hall of the Conference Room)</i>	
10:45 - 12:15	PRACTICAL Group 1: The AATSR Global Analyser (Ocean Room) Group 2: Bilko - Synergy between SST image data and altimetry (Lapérouse Room)	Gary Corlett <i>(Univ. of Leicester)</i> Val Byfield <i>(NOC)</i>
12:30 - 13:30	<i>Lunch Time (Ifremer Restaurant)</i>	
13:45 - 15:15	PRACTICAL Group 1: Bilko - Synergy between SST image data and altimetry (Ocean Room) Group 2: The AATSR Global Analyser (Lapérouse Room)	Val Byfield <i>(NOC)</i> Gary Corlett <i>(Univ. of Leicester)</i>
15:30 - 15:45	Closing (Conference Room)	Peter Regner (ESA)
16:00	<i>Bus departure for Brest airport or Brest train station (near Ifremer Restaurant)</i>	

