

ESA- MOST Dragon 3 Cooperation

Advanced Training Course in Ocean Remote Sensing

21-26 October 2013, The Chinese University of Hong Kong, Hong Kong

Programme

Day 1 - Monday 21 October 2013					
OPENING SESSION Venue: Cho Yiu Hall, G/F, University Administration Building, CUHK					
08:45 - 09:15	Registration				
	Official Welcome (Chaired By Hui Lin)				
09:15 - 09:45	9:15 - 09:45 - NRSCC - ESA		Tung Fung Songmei Zhang Yves-Louis Desnos		
09:45 - 10:00	- 10:00 Overview of the Training Course: Practical aspects, organisation and logistics		Andy Zmuda		
10:00 - 10:30	Photo call & break				
10:30 - 11:30	Present and future Chinese satellite missions & applications for ocean remote sensing	D1L1	Junmin Meng		
11:30 - 12:30	Present and future ESA satellite missions & applications for ocean remote sensing	D1L2	Yves-Louis Desnos		
12:30 - 14:00	Lunch Time				
Retrieval of Sea Surface Salinity (SSS) Venue: Rm 103 & 105, Pi Ch'iu Building, CUHK					
14:00 - 14:45	Sea Surface Salinity from MERIS data	D1L3	Tingwei Cui		
14:45 - 15:00	Sea Surface Salinity from SMOS data	D1L4	Nicolas Reul		
15:00 -15:30	Preak				
15:30 - 16:45	PRACTICAL – Intro. to BEAM & Sea Surface Salinity from MERIS	D1P1	Ana Ruescas with Tingwei Cui		
16:45 - 18:00	PRACTICAL – Sea Surface Salinity from SMOS	D1P2	Ana Ruescas with Nicolas Reul		
18:05	Assembly at the school bus stop outside Pi Ch'iu Building (Shuttle bus will be provided to The Star Seafood Floating Restaurant)				
18:30 - 20:30	Welcome Dinner Venue: Star Seafood Floating Restaurant (明星海鮮舫) Address: No. 55-57 Tai Chung Kiu Road , Shatin, HK (新界沙田大涌橋路 55-57 號) (Tel: 26353788)				
20:30	Assembly outside The Star Seafood Floating Restaurant (Shuttle bus will be provided to University Guest House and Hyatt Regency HK Shatin)				



Day 2 - Tuesday 22 October 2013				
Geophysical Parameters from Radar Altimeters Venue: Rm 103 & 105, Pi Ch'iu Building, CUHK				
08:30 - 09:30	Principles of radar altimetry	D2L1	Helen Snaith	
09:30 - 10:30	Altimeter data processing	D2L2	Helen Snaith	
10:30 - 11:00	Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
11:00 - 12:30	BRAT basics: example of SSH computation from along-track altimetric data	D2P1	Caroline Maheu	
12:30 - 14:00	Lunch Time			
14:00 - 14:45	Altimetry and oceanography	D2L3	Helen Snaith	
14:45 - 15:30	Applications of altimetry in Chinese seas	D2L4	Junmin Meng	
15:30 - 16:00	Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
16:00 - 18:00	BRAT mapping and statistical functions (high- level gridded altimetric data) I Demonstration of Crysat-2 data processing	D2P2	Caroline Maheu	
18:30 - 20:00	8:30 - 20:00 Poster Session (refreshments available) Venue: 3/F, Fok Ying Tung Remote Sensing Science Building, CUHK			



Day 3 – Wednesday 23 October 2013 Ocean Colour & Retrievals Venue: Rm 103 & 105, Pi Ch'iu Building, CUHK				
09:15 - 10:30	Atmospheric Correction and Coastal Water Algorithms in China Seas	D3L2	Fang Shen	
10:30 - 11:00	00 Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
11:00 - 12:30	Practical 1: BEAM Toolbox principles & MERIS data	D3P1	Ana Ruescas David Doxaran & Fang Shen	
12:30 - 14:00 Lunch Time				
14:00 - 14:45	The Use of MERIS & TPM Data for Ocean Colour Applications in Chinese Coastal Areas	D3L3	Danling Tang	
14:45 - 15:30	Practical 2: Exercises with BEAM using MERIS data	D3P2	Ana Ruescas David Doxaran Fang Shen	
15:30 - 16:00	5:30 - 16:00 Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
16:00 - 18:00	Practical 2 (continue)	D3P2	Ana Ruescas David Doxaran Fang Shen	



Day 4 – Thursday 24 October 2013 Geophysical parameters from SARs Venue: Rm 103 & 105, Pi Ch'iu Building, CUHK				
09:30 - 10:30	Introduction: Using SAR for Ocean Applications	D4L2	Werner Alpers	
10:30 - 11:00	30 - 11:00 Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
11:00 - 12:30	Practical 1: SAR Processing and Analyses Tools	D4P1	Fabrice Collard, Junmin Meng & Jingsong Yang	
12:30 - 14:00	Lunch Time			
14:00 - 14:45	SAR Advanced Theory and Doppler	D4L3	Fabrice Collard & Johnny Johannessen	
14:45 - 15:30	SAR Applications in the China Seas	D4L4	Jingsong Yang & Junmin Meng	
15:30 - 16:00	5:30 - 16:00 Break Venue: Function Room, 2/F, East Wing of The Art Museum, CUHK			
16:00 - 18:00	Practical 2: Tools applied to SAR images for the China Seas	D4P2	Fabrice Collard, Junmin Meng & Johnny Johannessen	



Day 5 – Friday 25 October 2013				
Sea Surface Temperature (SST) Venue: Rm 103 & 105, Pi Ch'iu Building, CUHK				
08:30 - 09:30	Measuring SST from Space	D5L1	Gary Corlett	
09:30 - 10:30	SST Observations of Large-Scale Ocean processes	D5L2	Jiayi Pan	
10:30 - 11:00	Break Venue: Function Room, 2/F, East Wing of The	Art Mus	eum, CUHK	
11:00 - 12:30	AATSR Practical 1 - The AATSR Global Analyser	D5P1	Gary Corlett	
12:30 - 14:00	Lunch Time			
14:00 - 15:30	AATSR Practical 2: Bilko - an Introduction to SST image Analysis	D5P2	Gary Corlett	
15:30 -1 6:00	Break Venue: Function Room,2/F, East Wing of The Art Museum, CUHK			
16:00 - 17:00	AATSR Practical 2: Bilko – Continued	D5P2	Gary Corlett	
17:05	Assembly at the school bus stop outside Pi Ch'iu Building (Shuttle bus will be provided to The Serenade Chinese Restaurant)			
17:45 - 19:45	Farewell DinnerVenue: Serenade Chinese Restaurant (映月樓)9:452/F, Hong Kong Cultural Centre, Restaurant Block, Tsim Sha Tsui, Kowloon(九龍尖沙咀香港文化中心餐廳大樓2樓)(Tel: 2722 0932)			
19:45-20:15	Short Walk enjoying the night view of Victoria Harbour			
20:15	Assembly at the main entrance of SOGO Department Store (Shuttle bus will be provided to University Guest House and Hyatt Regency HK Shatin)			



Day 6 - Saturday 26 October 2013 Models, Data Assimilation & Climate Variables Venue: Cho Yiu Hall, G/F, University Administration Building, CUHK				
09:00 - 09:45	Observations, Models and Environmental Prediction in China Seas	D6L1	Fang Shen	
09:45 - 10:45	Synergy Between Optical, Infrared and Microwave Sensors for Ocean Remote Sensing Applications	D6L2	Fabrice Collard & Johnny Johannessen	
10:45 - 11:15	Break			
11:15 - 11:45	The Marine Component of ESA's Ocean Climate Change Initiative	D6L3	Johnny Johannessen	
11:45 - 12:30	Training Course Summary Awards for Best Poster Papers Presentation of Certificates Closing	Plenary	Andy Zmuda NRSCC, CUHK, ESA Lecturers Hui Lin	