

WEB ADDRESS

- [ENGLISH VERSION]
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- [CHINESE SIMPLIFIED VERSION]
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▲ MERIS FR true colour composite of Pearl River Delta © ESA 2008

REGISTRATION

No participation fee will be charged for the training. Successful candidates will need to meet their own accommodation and travel costs to attend the course. The number of participants to the training is limited to 60. To apply for admission, please complete the application form available on the website and up-load your CV in English and a copy of a certificate that shows your level of proficiency in the English language.

Contact for applications is Ms. Chloris Yip

Institute of Space and Earth Information Science
Fok Ying Tung Remote Sensing Science Building
CUHK, Shatin, N.T., Hong Kong - Email: chlorisyip@cuhk.edu.hk

The deadline for registration is the 31st August 2013.

SCIENTIFIC COORDINATION

- | | |
|--------------------|--------------------------------|
| Bureau | ■ Li Zengyuan _____ NRSCC |
| | ■ Yves-Louis Desnos _____ ESA |
| Secretariat | ■ Andy Zmuda _____ Serco / ESA |
| | ■ Gao Zhihai _____ NRSCC |

LOCAL ORGANISING COMMITTEE

- | | | |
|--------------------------|---|--|
| Chair | ■ Dr. Liao Xiaohan _____ Director-General, NRSCC | ■ Prof. Li Zengyuan _____ Coordinator of ESA-MOST |
| | ■ Prof. Lin Hui _____ Director & Professor, ISEIS, CUHK | ■ Dr. Zhang Songmei _____ Division Chief, NRSCC |
| Co-Chairs | ■ Prof. Li Jiahong _____ Chief Engineer, NRSCC | ■ Prof. Gao Zhihai _____ The Office of ESA-MOST |
| | ■ Prof. Huang Bo _____ Associate Director, ISEIS, CUHK | ■ Dr. Yue Huanyin _____ Dragon Programme, IFRIT, CAF |
| Executive Chair | ■ Prof. Pan Jiayi _____ ISEIS, CUHK | ■ Prof. Ang Put O, Jr. _____ SLS, CUHK |
| Secretariat | ■ Ms. Yip Wai Yi, Chloris _____ ISEIS, CUHK | ■ Prof. Chen Yongqin, David _____ DGRS, CUHK |
| Technical liaison | ■ Mr. Chan Chung Kwon, Isaac _____ ISEIS, CUHK | ■ Prof. Wu Renguang _____ ISEIS, CUHK |
| | ■ Mr. Bob Su _____ University of Twente | ■ Prof. Zhang Yuanzhi _____ ISEIS, CUHK |
| | | ■ Mr. Chau Chun Ming, Michael _____ MD, HK SAR Govt. |
| | | ■ Dr. Pang Yick Cheung, Matthew _____ ISEIS, CUHK |
| | | ■ Mr. Mok Hing Yim _____ HKO, HK SAR Govt. |

- IFRIT, CAF | Institute of Forest Resource Information Techniques, Chinese Academy of Forestry
- SLS, CUHK | School of Life Science, The Chinese University of Hong Kong
- DGRS, CUHK | Department of Geography & Resource Management, The Chinese University of Hong Kong

- MD, HK SAR Govt. | Marine Department, Hong Kong SAR Government
- HKO, HK SAR Govt. | Hong Kong Observatory, Hong Kong SAR Government



ESA-MOST Dragon 3 Cooperation

→ ADVANCED TRAINING COURSE IN OCEAN REMOTE SENSING

© ESA 2013

21-26 October 2013 | Institute of Space and Earth Information Science,
Chinese University of Hong Kong | Hong Kong, P.R. China

INTRODUCTION

Within the framework of the Dragon Cooperation Programme, a joint collaboration between the European Space Agency (ESA) and the Chinese Ministry of Science and Technology (MOST), ESA and NRSCC are providing a series of advanced thematic training courses on remote sensing applications hosted by university and research institutions in P.R. China. In 2013 as part of this initiative, Ph.D. students, post-doctoral and research scientists from P.R. China and other Asia Pacific countries interested in ocean remote sensing applications are invited to attend a 6 day advanced training course in the subject. The course will be hosted by Institute of Space and Earth Information Science, Chinese University of Hong Kong, Hong Kong, P.R. China.

CO-SPONSORS

- European Space Agency (ESA)
- National Remote Sensing Center of China (NRSCC) under MOST
- The Chinese University of Hong Kong (CUHK)
- Institute of Space and Earth Information Science (ISEIS)

OBJECTIVES

The objectives of this advanced Dragon 3 training course are:

- To stimulate and support the exploitation of ESA, TPM and Chinese EO data for ocean applications
- Introduce available software tools and methods for processing and product development for ocean applications using ESA, TPM and Chinese EO data.



▲ Fok Ying Tung Remote Sensing Science Building, CUHK

PRELIMINARY PROGRAMME

LECTURERS

■ Ocean colour & bio-physical retrievals

Prof. Shen Fang - China | SKLEC, ECNU
Prof. Tang Danling - China | ISCS, CAS
Dr. David Doxaran - France | LOV, CNRS/UPMC
Dr. Cui Tingwei - China | FIO
Dr. Nicolas Reul - France | IFREMER, France
Dr. Carsten Brockmann - Germany | Brockmann Consult

■ Sea Surface Temperature

Prof. Pan Jiayi - China | ISEIS
Prof. Gary Corlett - UK | Uni. of Leicester,

■ Geophysical parameters from SAR and Radar Altimetry

Prof. Yang Jingsong - China | SIO
Prof. Werner Alpers - Germany | Uni. Hamburg
Prof. Johnny Johannessen - Norway | NERSC
Prof. Meng Junmin - China | FIO
Dr. Fabrice Collard - France
Dr. Helen Snaith - UK | NOC
Dr. Caroline Maheu - France | CLS

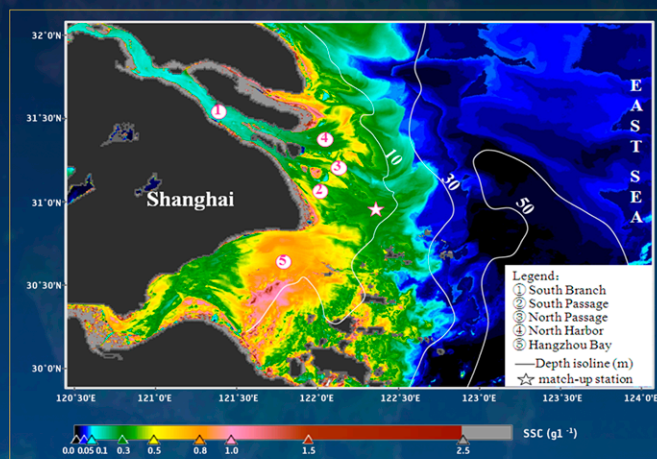
The training course is devoted to applications of ESA EO data and information retrieval for China seas using optical, IR, SAR and radar altimeter data. The following disciplines and subjects will be covered.

LECTURES

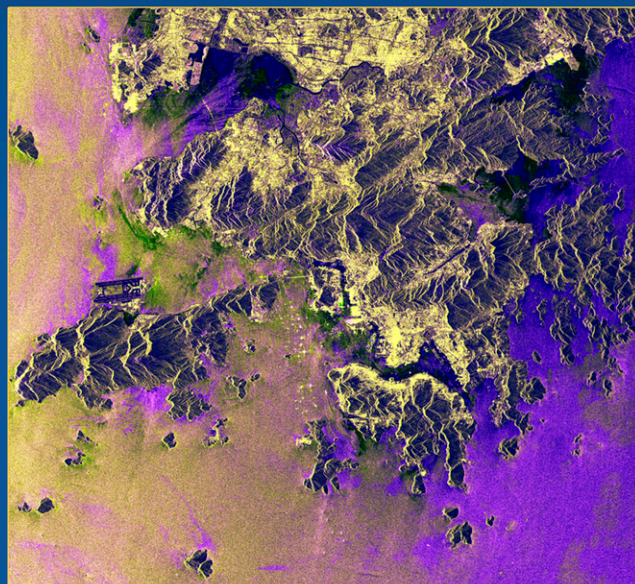
- Current and future Chinese and ESA missions for ocean remote sensing including Explorers, Sentinels 1,2 & 3 and HJ-1-C SAR
- Teaching of remote sensing principles in ocean colour, Sea Surface Temperature (SST) and geo-physical parameters retrieval from SAR and RAs
- Validation of geo-physical parameters
- Exploitation of instruments' synergy
- Advances in remote sensing over China seas
- EO and other data / model assimilation & Essential Climate Variables

PRACTICAL SESSIONS

- Data access and handling
- Usage of software tools for examining data sets from the ASAR, RA, MERIS and AATSR instruments and Sentinels' simulated data
- Interpretation of signatures from these instruments and their transformation into geo-physical products



▲ SSC retrieved by the SERT algorithm with ESA MERIS FR 300 m data



▲ ASAR multi-temporal composite of Hong Kong. Credits: ESA 2004