

Dragon Programme 2004 to 2007 2005 Santorini Symposium, Greece

AGENDA

Day 1, Wednesday 29 June 2005	
Chairs: Zhang Guocheng, Director of NRSCC / Stephen Briggs, Head of Earth Observation Science and Applications of ESA	
Official Welcome	
<ul style="list-style-type: none"> • Lars Fredén, Head of ESA International Relations • Liao Xiaohan, Deputy Director of High Technology Department of MOST • Christos Zerefos, Chairman of NOA 	
Session 1: Opening Session	
<u>China Earth Observation Satellites and Applications</u>	Cao Xuejun (The Ministry of Science and Technology, PR China)
<u>Overview of Earth Observation Programmes in Greece</u>	Christos Zerefos (NOA)
<u>EO and GIS in Support of Organisation of Major Events: An Application for the Athens 2004 Olympic Games</u>	Kostas Cartalis (University of Athens)
<u>ESA Earth Observation Satellites and Applications</u>	Stephen Briggs (ESA)
<u>Envisat and ERS Missions Status and Contributions to Dragon</u>	Pierre Potin (ESA)
Session 2: Bilateral Sino-European Collaboration Projects	
Chairs: Lars Fredén, Head of ESA International Relations, ESA-HQ/Shi Lin, International Affairs for Greece, MOST	
<u>Greece/China Co-operation</u>	Vassiliki Mesthaneos (General Secretariat for Research and Technology)
<u>Ocean Climate Research - Norway/China Co-operation</u>	Knut-Frode Dagestad (Nansen Environmental and Remote Sensing Center)
<u>Water Risk Management (WARM) - France/China Co-operation</u>	Christine King (BRGM) and Li Jing (Beijing Normal University)
Session 3: Oceanography	
3.1 Coupling Climate and Ocean Systems (2615)	
Chairs: Werner Alpers (Universität Hamburg)/Ming-Xia He (OUC)	
<u>DRAGON in Support to the Development and Integration of a Chinese Marine Monitoring for Environment and Security System</u>	Knut-Frode Dagestad (NERSC)
<u>The Study of Atmospheric Aerosol Characteristics and its Radiative</u>	Pucaï Wang

<u>Forcing over China from Ground and Satellite Observation</u>	(Institute of Atmospheric Physics, Chinese Academy of Sciences)
3.2 Ocean Environment and Climate 1 (2566)	
Chairs: Werner Alpers (Universität Hamburg)/Ming-Xia He (OUC)	
<u>Overview of Dragon Project ID 2566: Oceanography from Space - Internal Waves, Ocean Surface Waves, Shallow Water Topography, Ocean Color, and Kuroshio Current</u>	Ming-Xia He (Ocean University of China) presented by Werner Alpers (Institut für Meereskunde der Universität Hamburg)
<u>The Distribution of Internal Waves in the China Seas Studied by Multi-sensor Satellite Images</u>	Werner Alpers (Institut für Meereskunde der Universität Hamburg)
<u>On the Retrieval of Amplitude of Internal Waves from Spaceborne Synthetic Aperture Radar</u>	Ming-Xia He (Ocean University of China) presented by Ken Zhang (OUC)
<u>Automatic Extractions of Internal Wave Feature in Satellite SAR Images</u>	Ming-Xia He (Ocean University of China) presented by Hongping Li (OUC)
3.3 Ocean Environment and Climate 2 (2566)	
Chairs: Werner Alpers (Universität Hamburg)/Ming-Xia He (OUC)	
<u>Assimilating Sea Surface Temperature Data into an Ocean Model in the Kuroshio Regions</u>	Mingqiang Fang (ORSI/OUC)
<u>Sea Surface Temperature Merged from Multi-Sensor Data</u>	Lei Guan (Ocean University of China)
<u>Discussion of JEBAR on the East-Chinese Shelf</u>	Xueen Chen (ORSI/OUC)
<u>A Novel Data Processing Method for the Satlantic Hyper-TSRB in Coastal Waters</u>	Keping Du (Beijing Normal University)
<u>Retrieval of Oceanic and Atmospheric Parameters from MERIS Data and Validation in the East China Sea</u>	Tinglu Zhang (Ocean University of China)
<u>The Ocean Optics Data Analysis of Cruise the East China Sea in Spring, 2005</u>	Zhi-Shen Liu (ORSI, Ocean University of China)
<u>Analysis of MERIS Data of Yangtse Coastal Waters, Dragon Project Ocean</u>	Roland Doerffer (GKSS)
Session 4: Atmosphere	
4.1 Air Quality Monitoring and Forecasting (2580)	
Chairs: Christos Zerefos (NOA)/Zeng Qiming (PKU)	
<u>Monitoring Air Quality with Envisat data--- Dragon-2580 Interim Report from Chinese Partners</u>	Xiaojing Li (National Satellite Meteorological Center)
<u>Air Quality Monitoring over China</u>	Hennie Kelder (KNMI - TUE)
4.2 Chemistry of Climate Change in the Atmosphere (2579)	
Chairs: Paul Simon (IASB)/Zeng Qiming (PKU)	
<u>Dragon-Star: Middle Atmosphere above China as seen by GOMOS</u>	Erkki Kyrölä (Finnish Meteorological Institute)

<u>Initial Research on Chemistry of Middle Atmosphere with GOMOS and MIPAS Data</u>	Hong Qiu (NSMC)
<u>The Greek Contribution to DRAGON-STAR</u>	Dimitrios Balis (Aristotle Univ. of Thessaloniki) presented by Kostas Kortidis (DUT)
Session 5: Young Scientists	
5.1 Presentations by Young Scientists (1)	
Chairs: Li Zengyuan (CAF)/Yves-Louis Desnos (ESA)	
<u>A Study of the Chemical Composition of the Atmosphere using Assimilation of Satellite Measurements</u>	Seppo Hassinen (Finnish Meteorological Institute)
<u>Flood Rapid Mapping using Multi-resolution, Incidence and Polarization ASAR SAR Data in Conjunction with MERIS Images within the Flood DRAGON Project</u>	Rémy Andreoli (SERTIT)
<u>Building the Reference Hydrological Model</u>	Charles Baubion (CIG - Ecole des Mines de Paris)
<u>Presentation of the Work Plan by the Young Scientist Working in Forest Fires.</u>	Cristina Moclán (University of Valladolid)
<u>Analysis on the Dual Polarization Data of ENVISAT ASAR</u>	Jinsong Chong (IECAS)
Day 2, Thursday 30 June 2005	
5.2 Presentations by Young Scientists (2)	
Chairs: Li Zengyuan (CAF)/Yves-Louis Desnos (ESA)	
<u>Marine Environmental Monitoring of the Southeast China Sea</u>	Knut-Frode Dagestad (Nansen Environmental and Remote Sensing Center)
<u>Trend Analyses of Tropospheric NO2 over China</u>	David Peters (KNMI - TUE)
<u>Creation of Large Area Forest Biomass Maps for NE China Using Synergy of Spaceborne Radar Data</u>	Oliver Cartus (Friedrich-Schiller-University Jena)
<u>Assessment of ENVISAT/ASAR Data for Rice Mapping in China</u>	Alexandre Bouvet (CESBIO)
<u>Artificial Scatterers for SAR Interferometry.</u>	Alessandro Parizzi (Politecnico di Milano)
<u>On the Physical Nature of SAR Permanent Scatterers</u>	Daniele Perissin (Politecnico di Milano)
<u>Drought Monitoring and Prediction over China</u>	Rogier van der Velde (ITC)
<u>Monitoring the Impact of the Three Gorges Dam on Landslide Susceptibility Using ENVISAT and Other EO Data. DRAGON (2558): Young Scientists - Overview</u>	Jian Guo Liu (Imperial College London) presented by Jan-Peter Muller (University College London)
<u>Study Of Crustal Deformation in the Broader Area Of Athens By Means of Differential GPS Measurements and SAR Interferometry.</u>	Michael Fomelis (University of Athens, Faculty of Geology)

Session 6: Flooding and Hydrology	
6.1 Drought Monitoring in China (2608)	
Chairs: Bob Su (ITC)/Li Jing (Beijing Normal University)	
<u>Drought Monitoring Based on Remote Sensing in Northern Huabei Plain</u>	Youqi Chen (Chinese Academy of Agricultural Sciences) presented by Liming Wang (JAAS)
<u>Drought Monitoring and Prediction over China, ESA-China Dragon Programme Project Proposal ID: 2608</u>	Z. Su (Geo-Information Science and Earth Observation ITC)
6.2 Flood Plain Disaster Rapid Mapping and Monitoring (2551)	
Chairs: Ghislain de Marsily (University of Paris VI)/Jiren Li (Ministry Water Resource)	
<u>Flood DRAGON Project: One Year of Life</u>	Jiren Li (Ministry Water Resource)
<u>Advances in Flood Rapid Mapping and Soil Moisture Estimation Using Multi-incidence and Multi-polarization ASAR SAR Data and MERIS Images Within the Flood DRAGON Project</u>	Hervé Yesou (SERTIT) and Nicholas Baghdadi (BRGM)
<u>DEM Generation Using Radargrammetric Stereo Technique</u>	Jing Li (Beijing Normal University)
6.3 Satellite Tools for Water Resources Assessment (2584)	
Chairs: Ghislain de Marsily (University of Paris VI)/Jiren Li (Ministry Water Resource)	
<u>Satellite Tools for Water Resources Assessment and Management at River Basin Scales: Shiguanhe basin modeling</u>	Jiren Li (Ministry Water Resource)
<u>Satellite Tools for Water Resources Assessment and Management at River Basin Scales</u>	Ghislain de Marsily (University of Paris VI) and Charles Baubion (UPMC)
Session 7: Forestry	
7.1 Deriving Forest Information from PolInSAR Data (2556)	
Chairs: Christiane Schmullius (FSU)/Eric Pottier (University of Rennes)	
<u>Case Study of the Effect of Temporal Decorrelation on Tree Height Inversion with SIR-C/X Polarimetric SAR Interferometry Data</u>	Erxue Chen (Chinese Academy of Forestry)
<u>Forest Parameter Estimation by Means of Pol-InSAR: Actual Status and Related Activities in the Frame of DRAGON Project.</u>	Tobias Mette (DLR)
<u>Polarimetric and Interferometric Classification of Forest at L band</u>	Laurent Ferro-Famil (IETR, University of Rennes)
<u>The PolSARpro v2.0 Toolbox</u>	Eric R. Pottier (IETR, University of Rennes)
7.2 Forest Map of China (2583)	
Chairs: Christiane Schmullius (FSU)/Thuy Le Toan (CESBIO)	
<u>FOREST DRAGON (FOREST-related Development of Radar Applications for Geomatic Operational Networks) - Project overview</u>	Christiane Schmullius (Friedrich-Schiller-Universitaet Jena)
<u>Forest Map Update using ENVISAT ASAR Data</u>	Yong Pang (Chinese Academy of Forestry)
<u>Forest Mapping in Northern China Using Wide Swath ASAR Data</u>	Thuy Le Toan

(CESBIO)

Status of Processing of ERS-1/2 Tandem Data for Northeast China

Maurizio Santoro
(Friedrich-Schiller University)

7.3 Forest Fire Monitoring (2531)

Chairs: Charalabos Kontoes(NOA)/Jose-Luis Casanova (University of Valladolid)

Detection and Monitoring of Forest Fires in China Through the ENVISAT-AATSR Sensor

Abel Calle
(University of Valladolid)

Design and Presentation of a Real-time-updating Website of Fire Detection in China Through the ENVISAT-AATSR Sensor.

Jose-Luis Casanova
(University of Valladolid)

Forest Fires Identification Using AATSR and MODIS Data

Xianlin Qin
(The Chinese Academy of Forestry)

The Sino-German Coal Fire Research Innovation

Jing Li
(Beijing Normal University)

Session 8: Agriculture

8.1 Rice Monitoring (2562)

Chairs: Shaun Quegan (University of Sheffield)/Li Bingbai (Agricultural Academy of Jiang Su Province)

Rice Monitoring in China - Part One

Thuy Le Toan
(CESBIO)

Rice Monitoring in China - Part Two

Bingxiang Tan
(Chinese Academy of Forestry)

Day 3, Friday 1 July 2005

8.2 Agricultural Monitoring in Fujian Province (2563)

Chairs: Thuy Le Toan (CESBIO)/Li Bingbai (Agricultural Academy of Jiang Su Province)

ENVISAT-1 ASAR Data Analysis and Agriculture Application Research

Xiaoqin Wang
(Fuzhou University)

Agriculture and Land Use Monitoring: Envisat Applications in Fujian Province

Shaun Quegan
(University of Sheffield)

Session 9: Elevation Models and Terrain Motion

9.1 Landslides (2558)

Chairs: Fabio Rocca (PoliMi)/Deren Li (Wuhan University)

Monitoring the impact of the Three Gorges dam on landslide susceptibility using ENVISAT and other EO data. DRAGON (2558): Progress summary - Year 1

Jan-Peter Muller
(University College London),
Qiming Zeng (Peking University),
and Zhenghong Li (UCL)

9.2 Monitoring Seismic Activity (2577)

Chairs: Fabio Rocca (PoliMi)/Deren Li (Wuhan University)

Monitoring Seismic Activity in China from InSAR : Dragon Project Progress and Future Work

Cecile Lasserre
(ENS - Laboratoire de Geologie)

Seismic and Interseismic Deformation along the Xianshuihe Fault Zone Based on Conventional and PS Interferometry

Issaak Parcharidis
(Harokopio University of Athens)

Coseismic Deformation Mapping and Inversion of the Zhongba(Tibet) Earthquake by ASAR Radar Interferometry

Jianbao Sun
(Beijing Normal University)

9.3 Terrain Measurement (2567)

Chairs: Issaak Parcharidis (Harokopio University of Athens)/Deren Li (Wuhan University)

Preliminary Results and their Assessment of InSAR Applications with ERS and ASAR Data Sets

**Deren Li
(Wuhan University)**

Monitoring Tianjin Subsidence by Permanent Scatterers Technique

**Fabio Rocca
(Politecnico di Milano)**

Closing session

MOST/ESA Officials