



Antenna Chetumal: Use of remote sensing data for environmental and civil security applications in Mexico

22nd to 24th of April, 2008

Location: International Conference Center (ICC). *Ciudad de México* / Mexico City

Host: German Remote Sensing Data Center (DLR-DFD) in partnership with the Mexican National Commission for the Knowledge and Use of Biodiversity (CONABIO)

Agenda

Martes, 22 de Abril / Tuesday, 22nd of April

08:00 - 09:00 Registro / Registration

	Bienvendida / Welcome	José Sarukhan
09:00 - 09:05	National Coordination of CONABIO	José Sarukhan
09:05 - 09:10	German Embassy of Mexico	Friedo Sielemann
09:10 - 09:15	Ministry of Foreign Affairs	Yuriria García
	Antenna Chetumal - Participating Institutes	
09:15 - 09:30	DLR	Harald Mehl
09:30 - 09:45	INEGI	Mario Reyes
09:45 - 10:00	CONABIO	Raúl Jiménez
10:00 - 10:15	ECOSUR	Alberto de Jesús
	Keynote	
10:15 - 10:45	CENAPRED: The Use of Remote Sensing Data for Civil Protection in Mexico	Roberto Quaas

10:45 - 11:30 Pausa / Coffee break

	First Session: Satellites & Sensors	
	Chair:	DLR, Gunter Schreier
11:30 - 12:00	TerraSAR X - Science	DLR, Achim Roth
12:00 - 12:30	TerraSAR X - Commercial	Infoterra, William van Kader
12:30 - 13:00	ERS-2 & ENVISAT	DLR, Erhard Diedrich

13:00 - 14:30 Comida / Lunch

	First Session: Satellites & Sensors (Cont.)	
	Chair:	DLR, Harald Mehl
14:30 - 15:00	Indian Earth Observation Satellites	DLR, Gunter Schreier (on behalf of Timothy Puckorius, EoTEC)
15:00 - 15:30	Landsat 5, LDCM, NPOESS	NASA / CONABIO, Dimitar Ouzounov / Rainer Reszl
15:30 - 16:00	GMES and European Earth Observation Satellites	DLR, Gunter Schreier

16:00 - 16:30 Pausa / Coffee break

	Second Session: Funding Programmes, Scientific Cooperation / Exchange	
	Chair:	Embassy, Friedo Sielemann / Ira Guse
16:30 - 17:00	DAAD - InWENT - Humboldt	DAAD, Arnold Spitta
17:00 - 17:30	CONACYT - UEMEXCYT, FONCICYT	CONACYT / Aureli Pancera, Jaime Jiménez

18:00 - 21:30 Dinner at TabliTaco Restaurant, Tlalpan

Miércoles, 23 de Abril / Wednesday, 23rd of April

Third Session: Overview Session: Remote Sensing Applications of Environment and Security

Chair:

CENAPRED, Roberto Quaas

09:00 - 09:30

Land: Medium, High, Very High Resolution Applications

DLR, Michael Schmidt

09:30 - 10:00

Oceanographic Applications: Ocean Color, Sea Surface Temperature, and SAR

UABC-FCM, Eduardo Santamaría

10:00 - 10:30

Civil Security: Disaster Management Cycle, Charter

DLR, Harald Mehl

10:30 - 11:00: Pausa / Coffee break

11:00 SESIÓN PARALELA I / PARALLEL SESSION I

MONITORING OF ENVIRONMENT AND SECURITY

Fourth Session A: Special Session: Selected Applications, Environment

Chair:

CONABIO, Rainer Ressler

11:00 - 11:30

LUCC, Tri-National Initiative, USA-Canada-Mexico, (MODIS, Landsat 5)

CONABIO, Gerardo López

11:30 - 12:00

Land Cover Mapping Programme, Europe, CORINE 2000 (Landsat ETM+)

DLR, Peter Reinartz

12:00 - 12:30

The Potential of Very High Resolution SAR for Land Applications

DLR, Achim Roth

12:30 - 13:00

Time Series Generation and Analysis

CONABIO, René Colditz

13:00 - 14:30 Comida / Lunch

Fifth Session A: Special Session: Selected Applications, Civil Security

Chair:

INEGI, Raúl Gómez

14:30 - 15:00

Fire Mapping, Fire Cycle Products (MODIS, BIRD)

CONABIO, Rainer Ressler

15:00 - 15:30

Rapid Mapping

DLR, Harald Mehl

15:30 - 16:00

Vulnerability, City

DLR, Achim Roth

16:00 FIN DE LA SESIÓN PARALELA I / END OF PARALLEL SESSION I

Miércoles, 23 de Abril / Wednesday, 23rd of April

11:00 *SESIÓN PARALELA II / PARALLEL SESSION II*

GROUND SEGMENT: DATA PROCESSING, DATA MANAGEMENT

Forth Session B: Ground Segment in Chetumal

Chair:

DLR, Gunter Schreier

11:00 - 11:30	Overview over DLR Ground Segment, Mission Operation Activities and Relevance for Mexico	DLR, Erhard Diedrich
11:30 - 12:00	Antenna Chetumal: System and Data	DLR, Eva Manas
12:00 - 12:30	Status of Antenna Operation	INEGI/ ECOSUR, Azael de la Cruz
12:30 - 13:00	Data Information Management	DLR, Eberhard Mikusch

13:00 - 14:30 *Comida / Lunch*

Fifth Session B: Ground Segment: Data Processing and Management

Chair:

DLR, Erhard Diedrich

14:30 - 15:00	Data Management in Mexico - Registro Nacional de Imágenes	INEGI, Juan Martínez
15:00 - 15:30	Orthorectification (IMAGE2006) and 3-D Imaging with Optical Satellite Data	DLR, Peter Reinartz
15:30 - 16:00	Mexico Receiving Station of the SPOT Constellation (ERMEXS)	SAGARPA / SEMAR, Edilberto Hernández / Eduardo Rojas

16:00 *FIN DE LA SESIÓN PARALELA II / END OF PARALLEL SESSION II*

16:00 - 16:30 *Pausa / Coffee break*

Sixth Session: Special Session: Oceanography

Chair:

Inst. Geografía-UNAM, Raúl Aguirre

16:30 - 17:00	Currents, Waves (ERS-2, ASAR, TerraSAR X)	DLR, Antonio Reppucci
17:00 - 17:30	Near-Real Time Operational Ocean Products (MODIS)	CONABIO, Sergio Cerdeira

Closing Session

17:30 - 17:45	CONABIO	José Sarukhan
17:45 - 18:00	DLR	Harald Mehl

18:00 - 21:00 **Departure for Boat Tour in Xochimilco**

Jueves, 24 de Abril / Thursday, 24th of April

OPTIONAL HANDS-ON TRAINING

09:00 *SESIÓN PARALELA I / PARALLEL SESSION I*

Training Session: Radar

DLR / CONABIO, Thomas Esch, Achim Roth / Alejandra Cervera

Content:

The training session "Radar" provides a hands-on introduction to the basic characteristics of SAR data and SAR image analysis. The session starts with a brief summary of radar theory including the fundamentals of SAR (frequency, polarization, viewing geometry, geometric and radiometric resolution) and the specific properties of radar images (distortions, target interaction). The theory part is supplemented with a set of practical examples allowing the participants to get hands-on experience. The session also provides a practical insight into SAR image analysis with a specific focus on speckle suppression techniques and object-oriented image classification.

09:00 - 10:30 Radar

10:30 - 11:00 *Pausa / Coffee break*

11:00 - 13:00 Radar (Cont.)

13:00 - 14:30 *Comida / Lunch*

14:30 - 16:00 Radar (Cont.)

16:00 *FIN DE LA SESIÓN PARALELA I / END OF PARALLEL SESSION I*

Jueves, 24 de Abril / Thursday, 24th of April

09:00 *SESIÓN PARALELA II / PARALLEL SESSION II*

Training Session: Optical Data

CONABIO, Gerardo López, René Colditz, Sergio Cerdeira

Content:

The hands-on training with optical data will specifically focus on MODIS data processing and time series generation. MODIS processing will comprise Level 0 to Level 1B production, derivation of corrected surface reflectances, and value-added land product generation such as NDVI and EVI. Additionally, ocean (SST, Chl_OC3) and atmosphere (cloud profiles, cloud mask) product generation will be addressed. The second part aims at time series generation using the quality information provided with each MODIS land product. Demonstrations and several hands-on exercises will be an integral part of this training.

09:00 - 10:30 Optical Data

10:30 - 11:00 Pausa / Coffee break

11:00 - 13:00 Optical Data (Cont.)

13:00 - 14:30 Comida / Lunch

14:30 - 16:00 Optical Data (Cont.)

16:00 *FIN DE LA SESIÓN PARALELA II / END OF PARALLEL SESSION II*

Jueves, 24 de Abril / Thursday 24th

OPTIONAL: VISIT OF ANTENNA

Programme at site at 15:00
ECOSUR Chetumal: Mission and Mandate, Projects
Antenna Operation Facilities