Earth Observation from Space (5-9 March)

Principles and Applications

Centre of Excellence for Satellite Applications - Muscat

Time	08.30-09.30	09.30-10.30	Coffee Break 15 min	10:45-11:45	Coffee Break 15 min	12.00-13.40		Lunch
05-Mar	Welcome!	Lecture 1		Lecture 2		Practical 1		
	Oman Space Program + Overview of the Course+ Vlab intro	Earth Observing Satellites History and Introduction		Satellite Remote Sensing Principles		Web-Based Visulization and Data Centers		
	Adel + Humaid	Humaid		Yassen		Ibrahim/ Hilal		
06-Mar	Lecture 3	Lecture 4		Lecture 5		Practical 2		
	Satellite Data Types and Data processing Levels (Level 0 to 4 products)	RGB Image (Principles)		RGB Image (Applications)		Data Handling and Visualization (Toturial on SNAP)		
	Humaid	Ibrahim		Ibrahim		Zamzam/ Hilal		
07-Mar	Lecture 6	Lecture 7		Lecture 8		Practical 3		
	Microwave Remote Sensing Principles and Applications	Oceanographics Features 1		Oceanographic Features 2		Data Handling and Visualization (Toturial on SNAP)		
	Ibrahim	Gerd		Gerd		Zamzam/ Hilal		
08-Mar	Lecture 9	Lecture 10		Lecture 11		Practical 4		
	Climate Monitoring from Space	Introduction to Google Earth Engine		Land Use Monitoring		Land Use Change detection		
	Kahlan	Ebrahim		Ebrahim		Ebrahim / Kahlan		
09-Mar	Lecture 12	Lecture 13		Lecture 14		Lecture 15	closing	
	Air Quality	AI Applications		Detecting Soil Propreties from Space		Soil Moisture	Closing and Evaluation (20 min)	
	Humaid	Zamzam /Manal		Malik Al Wardi		Ebrahim	All	