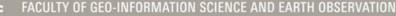
## **UNIVERSITY OF TWENTE.**

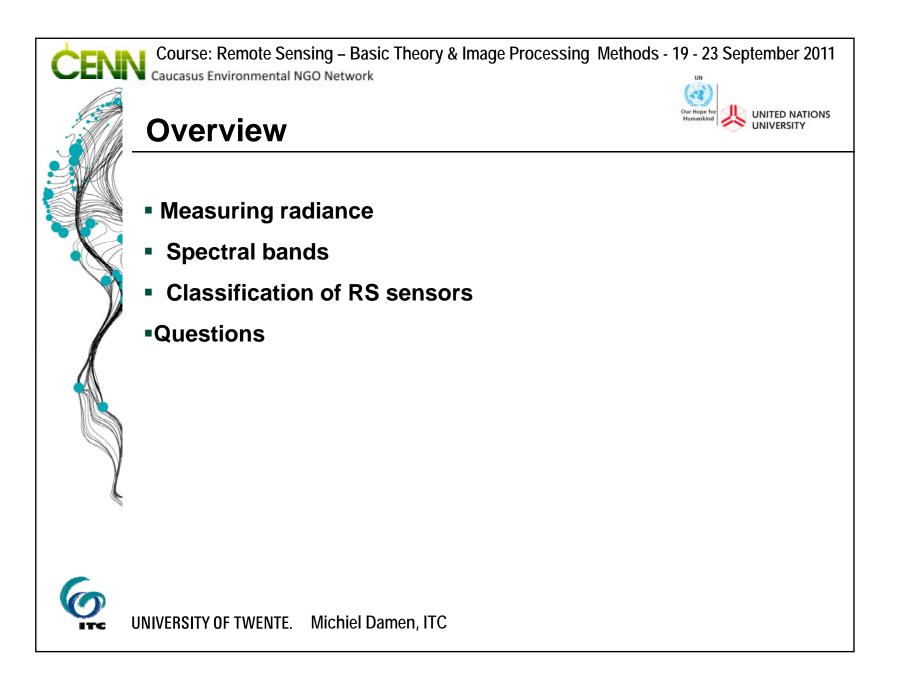
Training Course CENN Caucasus Environmental NGO Network Remote Sensing – Basic theory & Image Processing Methods 19 – 23 September 2011

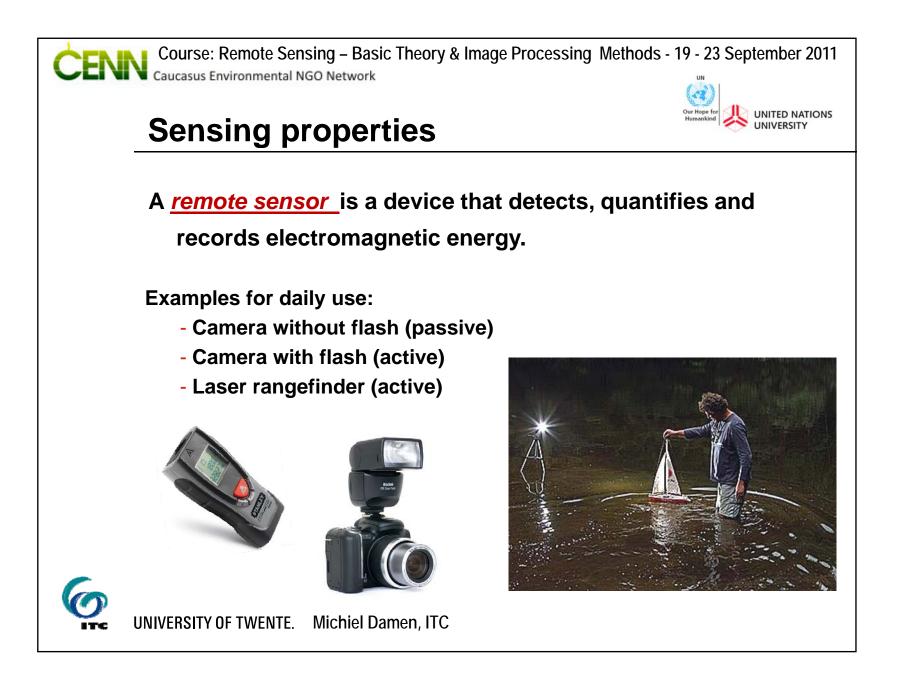
## Sensing Electro Magnetic Energy

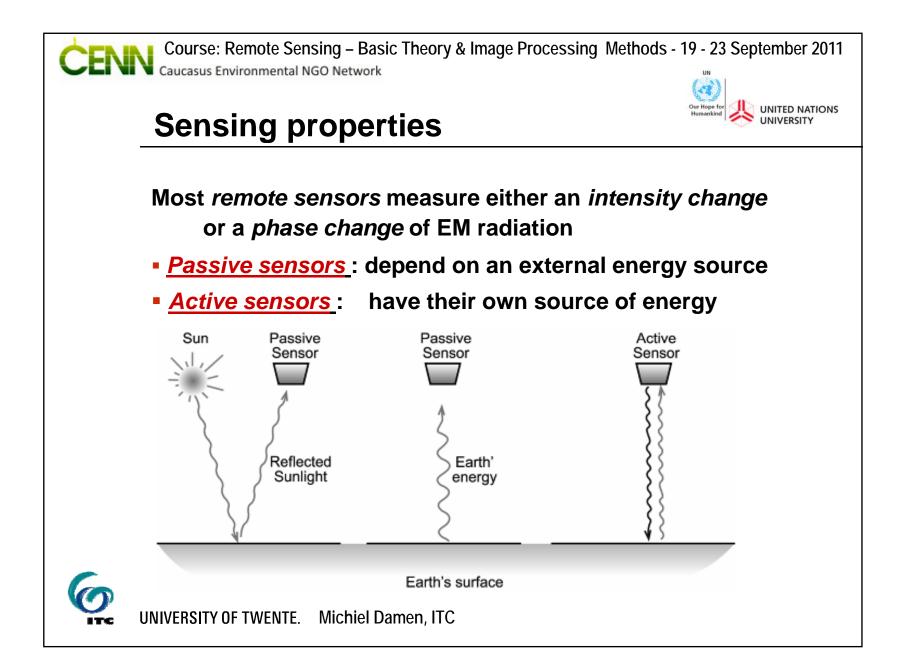
Michiel Damen (September 2011) damen@itc.nl

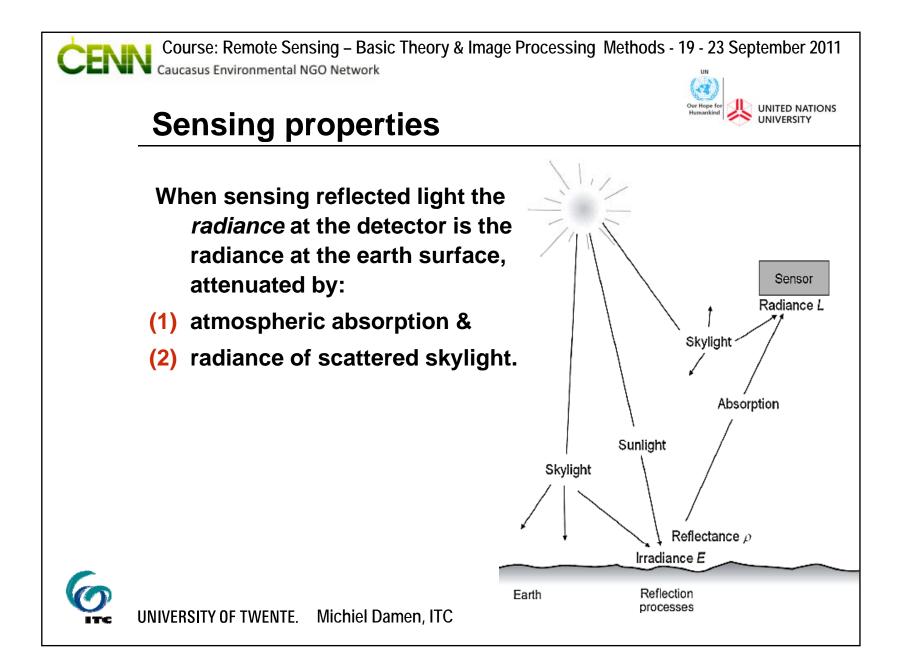


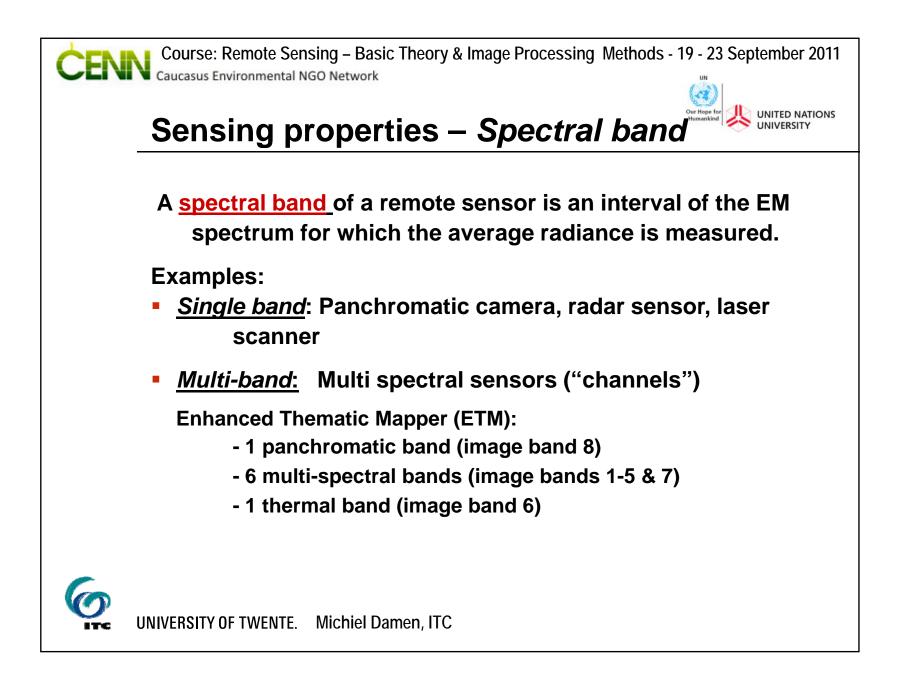


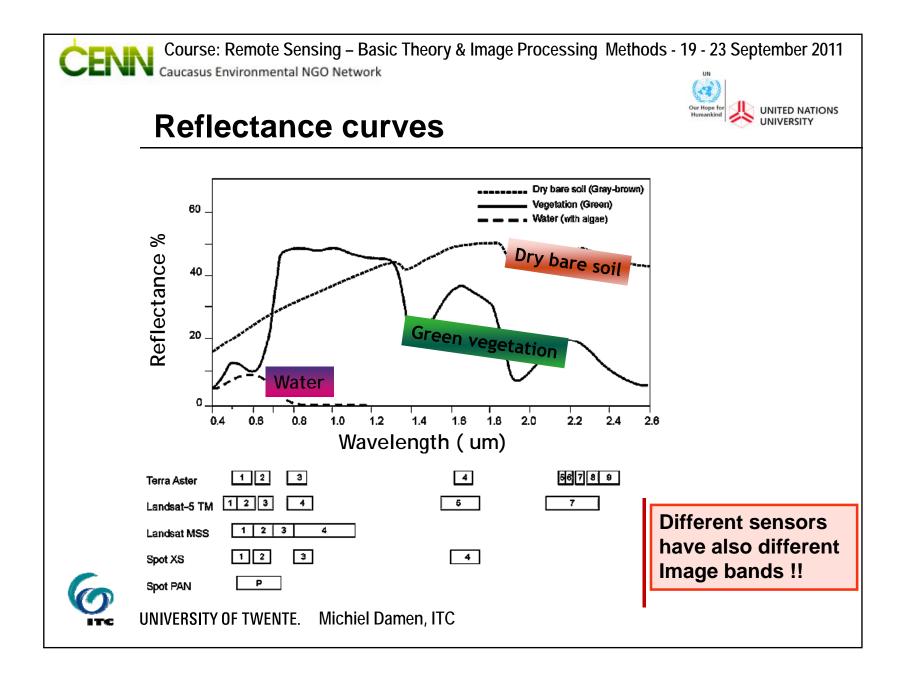


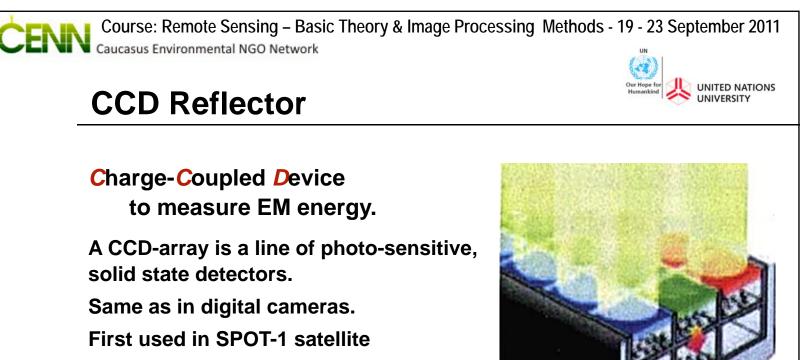








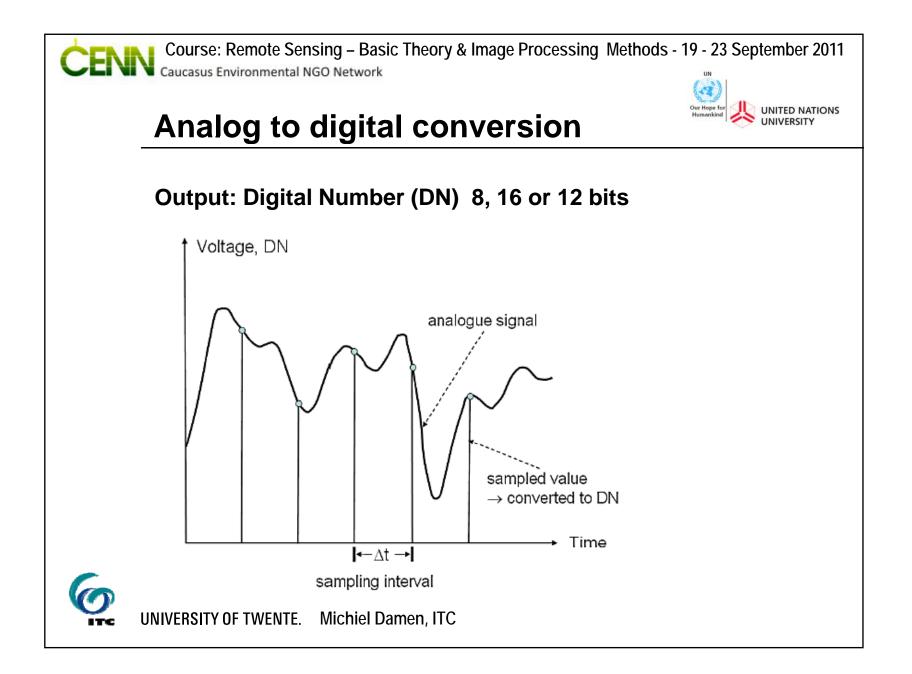


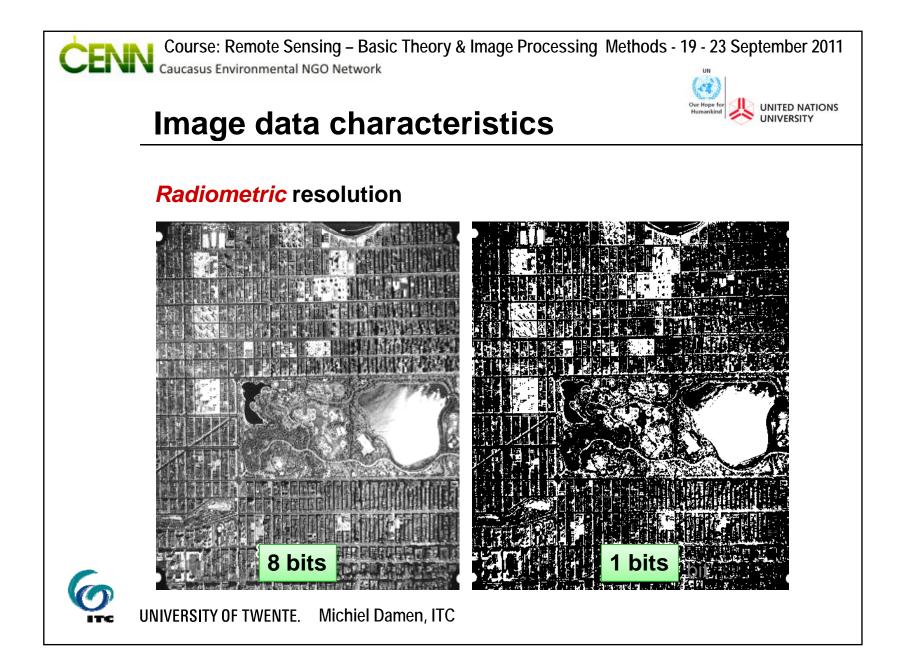


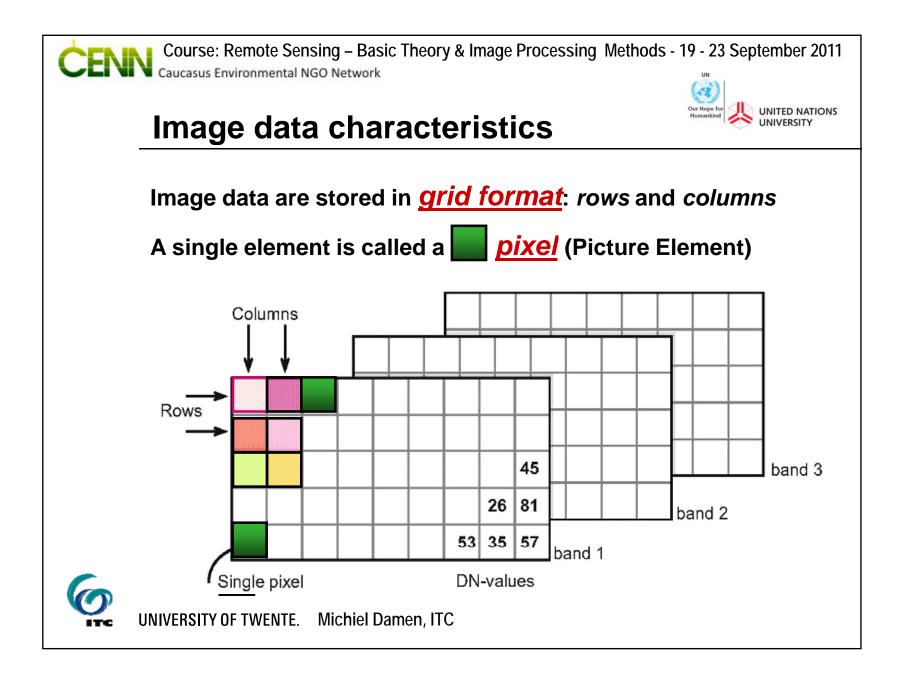
Charge proportional to radiance at detector.

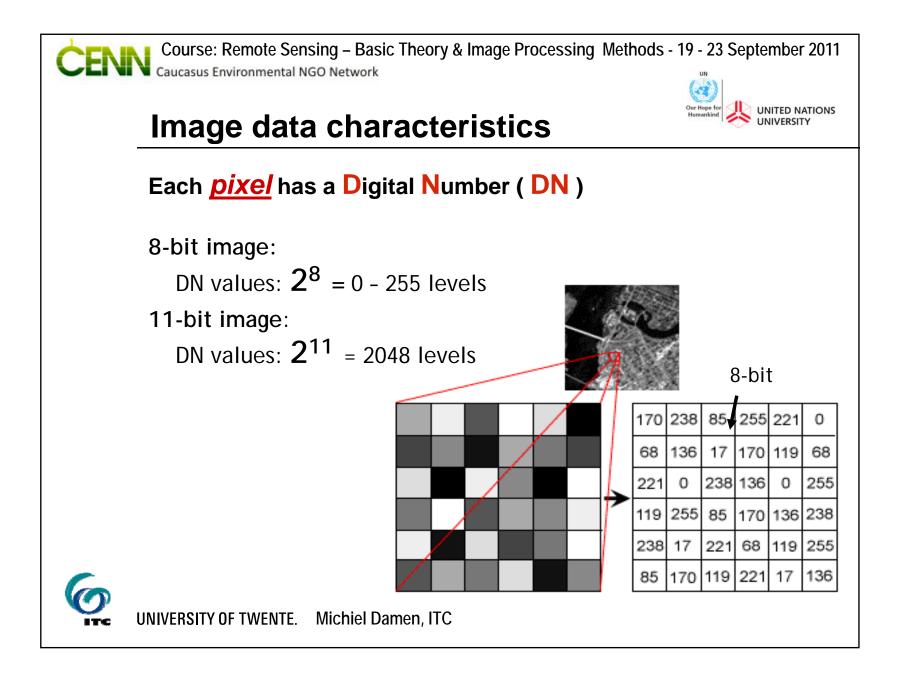
Electrical signal sampled and quantized: Analog to Digital conversion (A / D)

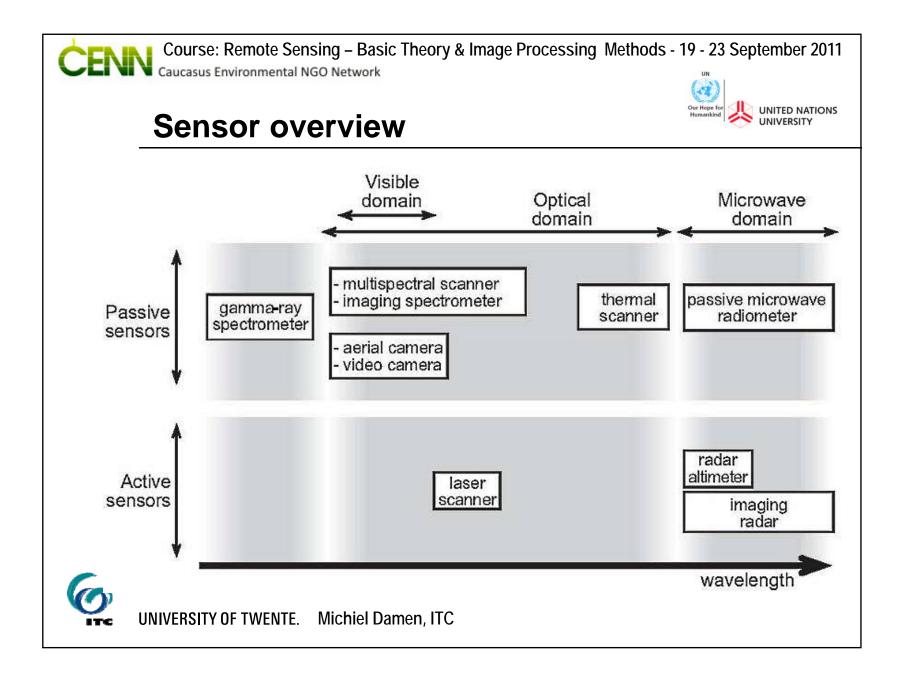


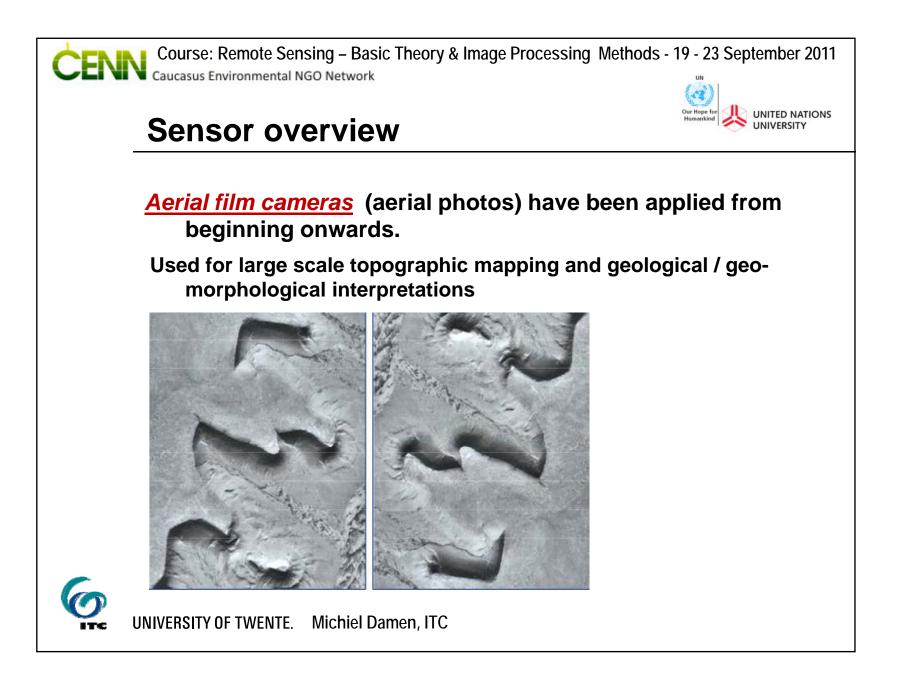


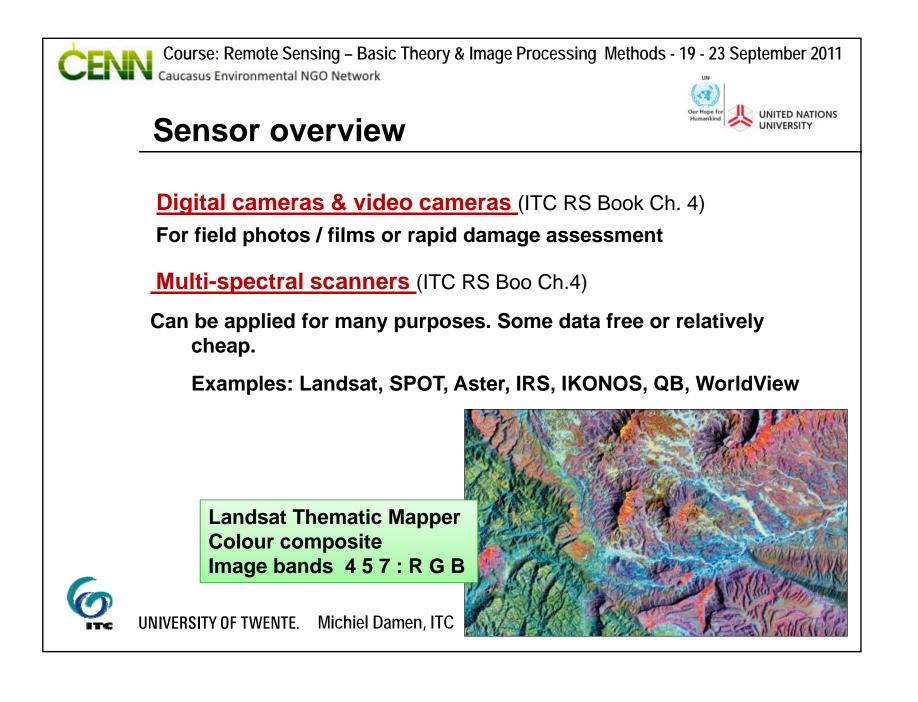


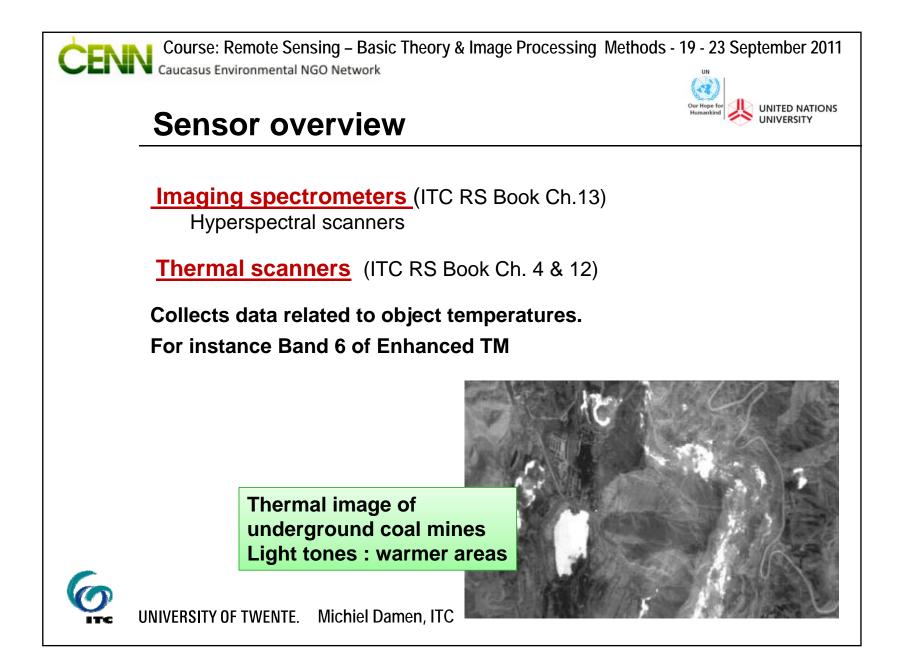


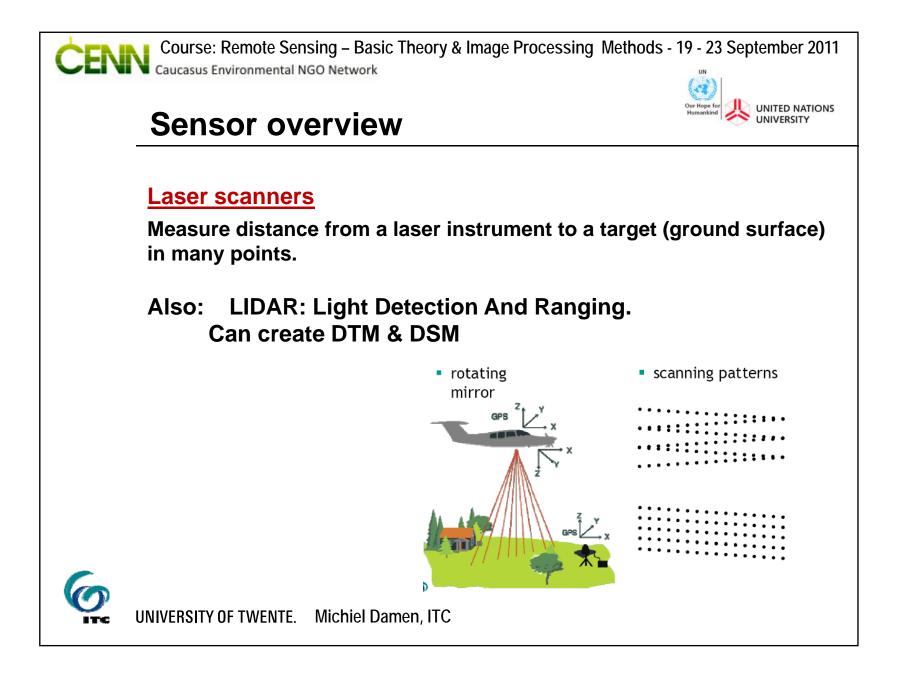


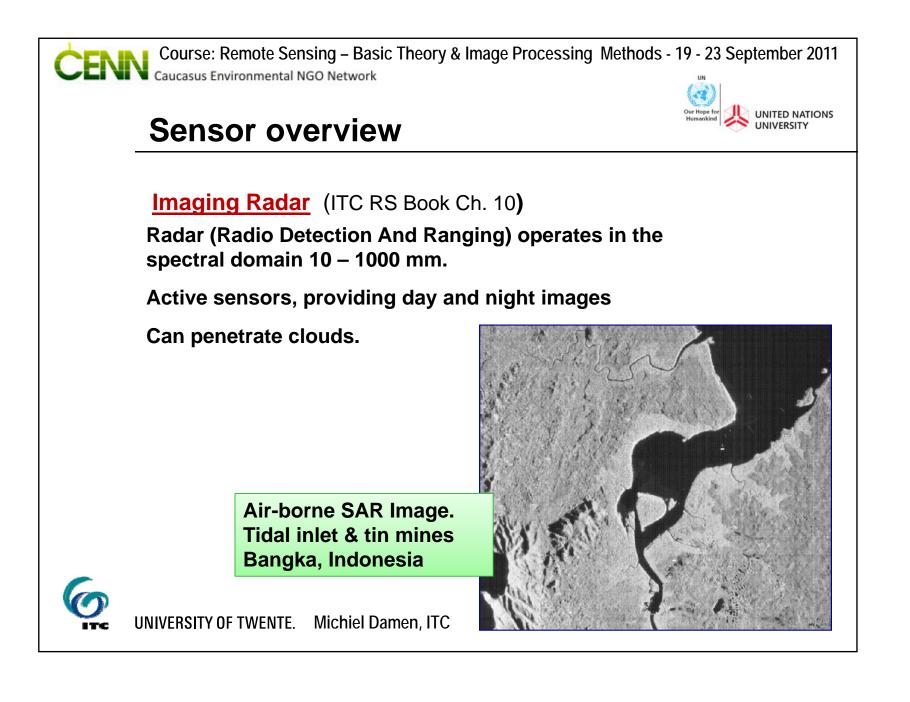


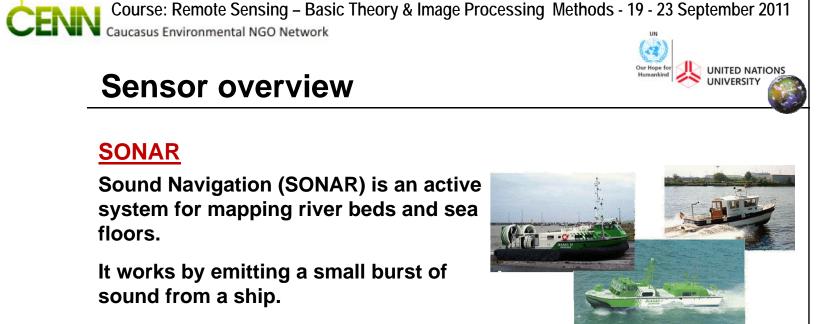






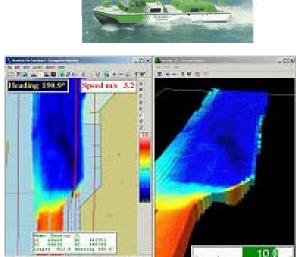






The time it takes for the reflected pulse to be received corresponds to the depth of the water.







UNIVERSITY OF TWENTE. Michiel Damen, ITC

Source: Eurosense

