**Course titles**

Remote sensing of vegetation dynamic. Methods, difficulties and results

**Mini course abstract - 2 sentences maximum**

Satellite remote sensing is a great tool to monitor the vegetation coverage, annual cycle, trends, and anomalies as a response of meteorological forcing. The presentation will describe the state-of-the-art of vegetation monitoring using optical remote sensing with some emphasis on the correction of directional effects and examples of recent results.

**PDF copies of at least 3-4 published articles relating to your subject**

1: RSE\_Breon\_Dir\_Effects.pdf

2: GRL\_Maignan\_Eur\_pheno.pdf

3: ERL\_Samanta\_Amazonia.pdf

4: GCB\_Cong\_China\_Pheno.pdf

**List of at least 3 questions relating to each article**

1a : What are the directional effects on land surface reflectances ?

1b: How can they be corrected ?

1c : Is it necessary to apply a pixel-specific method, or is there a global method

2a : What are the parameters that control vegetation phenology ?

2b : What are the typical inter-annual changes in vegetation growth date ?

2c : What are the main difficulties for monitoring these vegetation changes

3a : What is the subject of the controversy concerning response of Amazonian forest to drought?

3b: What are the main difficulties for monitoring Amazonian vegetation from space?

3c: What is novel in this paper regarding the data processing, when compared to previous papers on the same subject ?

3d: What is the conclusion of this paper regarding the impact of drought on the vegetation?

4a : What is the typical trend of vegetation growth date over China ?

4b : Do all vegetation types have the same sensitivity to climate change regarding vegetation onset date ?

4c What are the main parameters that control the vegetation onset date ?