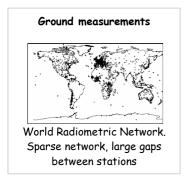
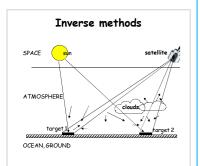


NEW EARTH OBSERVATION CAPABILITIES FOR SOLAR RADIATION ASSESSMENT

Armel OUMBE – Mines ParisTech – CEP PhD student – armel.oumbe@ensmp.fr



SATELLITE IMAGES

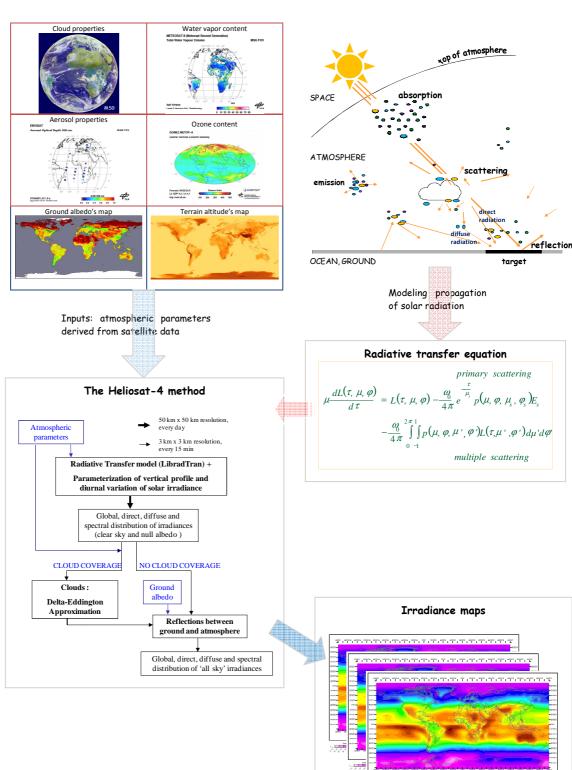


NEW SATELLITES

⇒ possible direct method

CHALLENGES

- accurate description of the optical state of the atmosphere,
- exploitation of all these values that are obtained at various time and space scales and sampling steps,
- design of a radiative transfer algorithm fast enough to process every Meteosat images every 1/4 h.



The main objective of my research is the assessment of SSI from satellite data including its spectral distribution. This assessment is based on radiative transfer models simulating the atmosphere. The atmospheric parameters (clouds, water vapour, aerosols, ozone) are obtained from new satellite data.