Geneviève Campan

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How space operations contribute to climate change monitoring?

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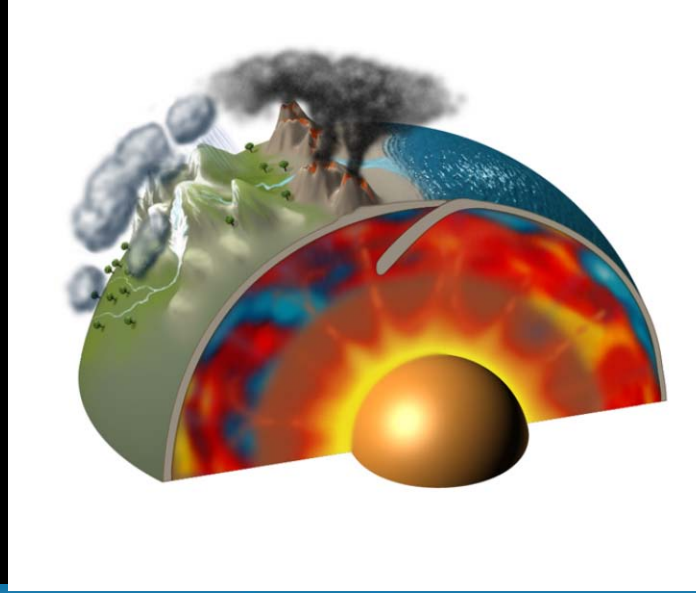
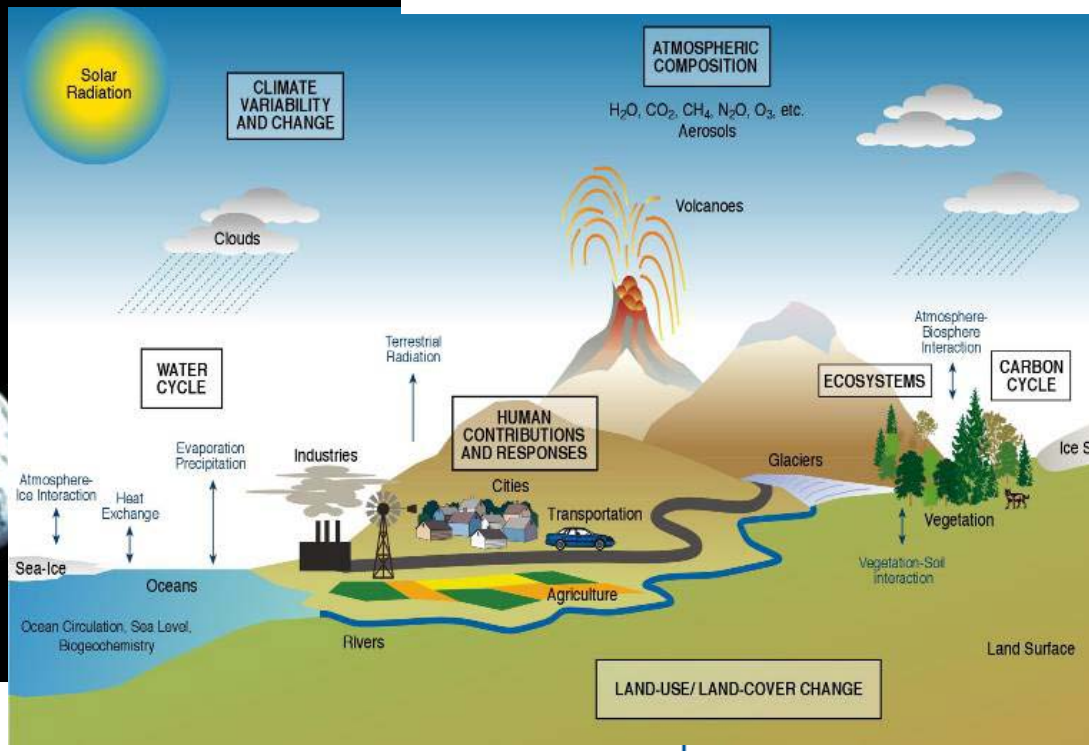
Our planet is a system of systems :

- Governed by geophysics
- Affected by human activities

Several physical cycles at various spatial and temporal frequencies,

interacting with each others





- Atmosphere
- Land surfaces
- Ocean
- Ice
- Solid Earth

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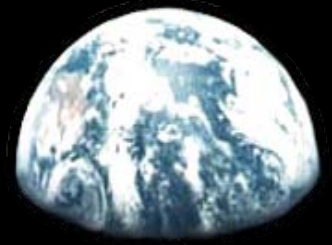
Earth needs Space …

- Space is the ideal place from which to observe the Earth,
- Study how it works, monitor change and anticipate extreme events …



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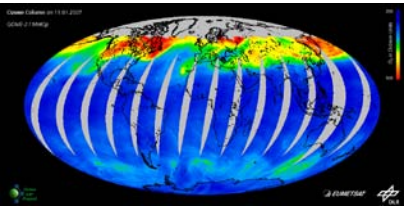
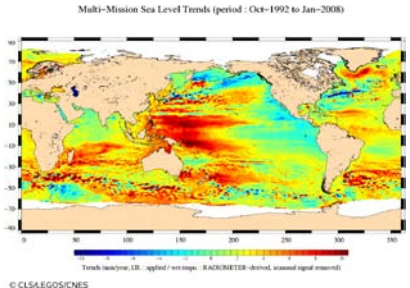
How the space operations contribute to climate change monitoring?

Moderator : Helen WOOD (NOAA) (US)

- Climate change : Ed Kearns from NOAA (US)
- Ocean Monitoring : P. Escudier from CLS (France)
- Land Cover : F. Huber from DLR/GSOC (Germany)
- Ice and Pole monitoring : D. Bancroft from CSA (Canada)
- Atmospheric Chemistry : K; Narita from JAXA (Japan)
- International charter “Space and major disasters" : S. Jutz from ESA/ESRIN (Italy)