- ECVs aim to monitor the climate system as a whole covering the interlinked Earth's energy balance and the carbon and water cycles.
- The biosphere is very important for the carbon and water cycles while many variables cover composition and transport that impact all aspects of climate change









MOISTURE







PERMAFROST

GLACIERS





Carbon Cycle











ANTHROPOGENIC GREENHOUS **GAS FLUXES**

CARBON

CARBON

CARBON DIOXIDE METHANE AND OTHER **GREENHOUSE** GASES

Composition and Transport



SURFACE WATER

VAPOUR

GROUNDWATER

USE



TERRESTRIAL

FROM LAND

EVAPORATION OCEAN SURFACE

LAKES



PRECIPITATION







AEROSOLS





SALINITY

TRACERS



STRESS

STATE





LIGHTNING







CLOUD

PROPERTIES











PROPERTIES

PRECURSORS



SEA SURFACE

TEMPERATURE









SURFACE WIND **CURRENTS** SPEED & DIRECTION

BIOMASS

EARTH RADIATION BUDGET



RADIATION BUDGET







TEMPERATURE





INDEX



COVER









OCEAN COLOUR





- Water ECVs (OOPC)
- Atmosphere ECVs (AOPC)