# CAWSES-SPP: Genehmigte Projekte für die 2-te Phase (2007-2008)

**Coordinator: Franz-Josef Lübken (IAP, Kühlungsborn)**

| | PI | CoI | Titel | Acronym |
|---|---|---|---|---|
| **characterisation of solar radiation etc.:** | | | | |
| 1. | Solanki | | Models of solar total and spectral irradiance variability of relevance for climate studies | |
| 2. | Weber | | Investigation of solar UV irradiance variation on hourly to decadal time scales and its impact on middle atmospheric ozone and ozone-climate interaction | |
| 3.<br>4. | Fichtner<br>Heber | | Time-dependent transport of energetic particles in the atmosphere, magnetosphere and heliosphere, charge exchange process in the dynamic heliospheric environment, neutron capture, production of cosmogenic isotopes | |
| **Influence on trace gases etc.:** | | | | |
| 5.<br>6. | Brühl<br>Langematz | | Project on Solar Effects on Chemistry and Climate Including Ocean Interactions | (ProSECCO) |
| 7. | Sinnhuber | | Data assimilation and model calculations to study chemistry climate interactions and solar impact in the polar stratosphere | DACCS |
| 8.<br>9. | Kallenrode<br>Schmidt | | The Atmospheric Response to Solar Variability: Simulations with a General Circulation and Chemistry Model for the Entire Atmosphere | ARTOS |
| 10. | Riese | | Response of Atomic Hydrogen and Oxygen to Solar Radiation Changes: Measurements and Simulations | |
| 11.<br>12. | Konopka<br>Reddmann | | Middle Atmosphere NOx variations and solar UV VAriability: Examples to study mesospheric/stratospheric coupling and the impact of solar variability on stratospheric ozone | MANOXUVA |
| 13. | Mrs. Sinnhuber | | Solar variability impacts on the chemical composition of the middle atmosphere: measurements and predictions | SICMA II |
| 14. | Savigny | | Impact of planetary waves and solar proton events on long-term variations of noctilucent clouds | |
| 15. | Lübken | | Solar variability and trend effects in layers and trace gases in the upper atmosphere | SOLEIL |
| 16. | Hartogh | | Investigations of the solar influence on middle atmospheric water vapor and ozone during the last solar cycle - analysis of the MPS data set | |
| 17. | Rapp | | Investigation of the influence of charged aerosol particles on the scattering of radar waves using | EISCAT |
| **Coupling by tides, gravity waves, dynamics etc:** | | | | |
| 18. | Peters | | The Influence of Solar Radiation Perturbations on the Coupling of Atmospheric Layers | SORACAL |