Europlanet N2 Science cases

(Outcome of Europlanet N2-N7 workshop at ESAC Villafranca, Madrid, Spain, April 24-26, 2006)

- 1. Understanding super-rotation (Grieger)
- 2. Ion-neutral chemistry at Titan (Leblanc)
- 3. Solar wind interaction at Jupiter and Saturn including aurorae (Krupp)
- 4. What is the origin of the planetary modulated (quasi-periodic) signatures at Saturn? (Krupp)
- 5. Investigation of the interaction of magnetospheric plasma with icy moons in the Saturnian system an other giant planet systems (Krupp)
- 6. Definition and archiving of ground-based observations in support of space missions (Coustenis)
- 7. Catalogue of IR and Raman spectra of gas CH4 coefficients, organics (Coustenis)
- 8. Dating planetary surfaces from cratering processes: formation of the solar system (Coustenis)
- 9. Quantifying the Martian geochemical reservoirs (Toplis)
- 10. Exchange processes between surface and interior of icy moons (Grasset)
- 11. What are the relative contributions of asteroidal dust, cometary dust, meteor streams, interstellar dust and circumplanetary dust to the structure of zodiacal cloud as a function of heliocentric distance, latitude and time (Graps)
- 12. What is the dynamical and morphological structure of the Kuiper belt (Graps)
- How can we best optimize from observations, numerical experiments, lab simulations, further analysis of past mission data, the science return of Rosetta
- 14. Solar wind-comet surface interaction (Schmidt)
- 15. Surface material composition (Schmidt)
- 16. Distant activity, outbursts, splitting and disruption of cometary nuclei (Makinen)
- 17. Planets under extreme stellar conditions (Lammer)