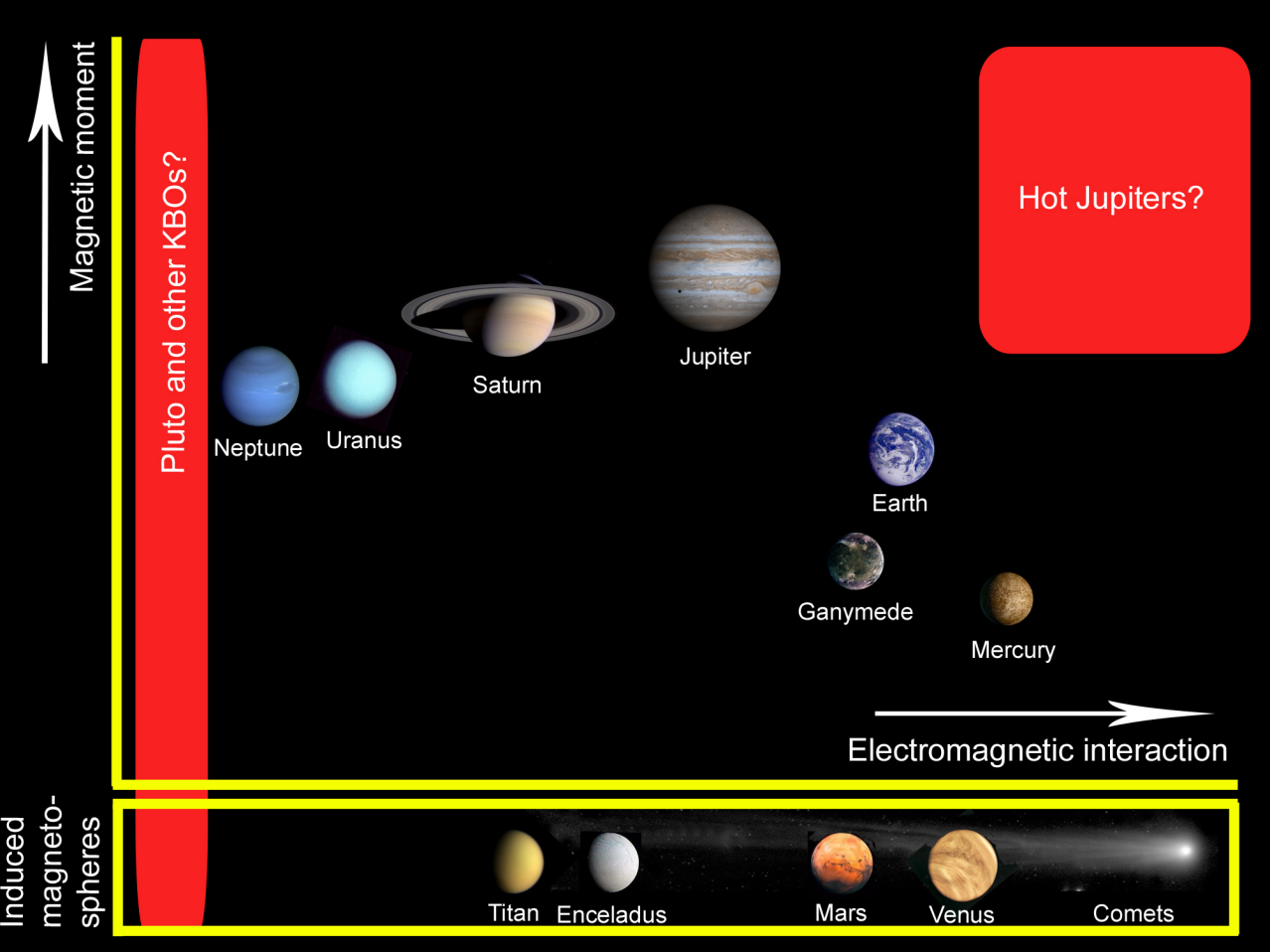
Specific Suggestions	**Milestones**
Aim: Investigation of solar-planetary interactions	
Modelling: *New solar wind propagation modelling – to investigate different solar wind conditions at different orbital distances* Observations: *2003/2004 interval: Cassini (~9AU), Ulysses (~5AU), Mars Express (~1.5AU),ACE (~1AU),solar monitor (SOHO ?)* *Other intervals : Mariner10, Messenger,Venus Express, New Horizons ?* Expertise: *DWG2 + Gombosi/Hansen, R. Prange, J. Luhmann, D. McComas, J. Slavin +others*	Initiate collaborations with solar system scientists Establish a solar wind propagation model Construct a database of multi-spacecraft observations
Aim: What is the influence of the solar wind interaction at Jupiter?	
Modelling: *Solar wind-magnetosphere-ionosphere coupling (Leicester, Warsaw) e.g. reconnection rates, cusp processes* *New global magnetic and plasma models* Observations: *Millennium Campaign at Jupiter (Cassini, Galileo, Hubble Space telescope (UV), Chandra X-ray Observatory, X-ray Multi-Mirror, InfraRed Telescope Facility)* Expertise: *DWG2 + Gombosi/Hansen, Graziella Branduardi-Raymont*	Initiate collaborations with new scientists Further development of existing models Create a database for the Millennium Campaign Recommendations for future ESA jovian mission: - *multi-spacecraft observations* - *solar wind monitoring* - *dedicated moon orbiters*

Aims: What is the origin of the planetary modulated (quasi-periodic) signatures at Saturn?	
Modelling: *Wave theory: investigate the global response of the magnetosphere to external/internal perturbations.* *Solar wind-magnetosphere-ionosphere coupling (Leicester, Warsaw)* *New global magnetic and plasma models (IC, Braunschweig, MSSL, U. Michigan, JHU/APL)* Observations: *magnetic field, particle data, radio emissions, energetic neutral atoms, UV observations from Cassini/Hubble Space Telescope, InfraRed Telescope Facility, Chandra X-ray Observatory, X-ray Multi-Mirror* Expertise: *DWG2 + Cassini Teams and PIs, Jean-Claude Gerard, Denis Grodent, Randy Gladstone, Graziella Branduardi-Raymont +other theoreticians/frequency analysis experts*	Initiate collaborations with new scientists Correlate multi-instrument and multi-observatory data sets Use of models/expertise to characterise quasi-periodic signatures
Aims: Can we detect an exoplanet magnetosphere now?	
Modelling: *-comparisons with Jupiter and other magnetospheres* *- consider sub-sonic versus super-sonic interactions* *- consider sub-Alfvenic versus super-Alfvenic interactions* Observations: *Future radio emissions could indicate the presence of a magnetosphere (LOFAR from 2008-2010)* Expertise: *Uwe Motschmann, Helmut Rucker, Pekka Janhunen (FMI) Gombosi/Hansen*	Initiate collaborations with new scientists Extend available planetary models to exoplanetary conditions


Magnetic moment
Pluto and other KBOs?
Hot Jupiters?
Neptune
Uranus
Saturn
Jupiter
Earth
Ganymede
Mercury
Electromagnetic interaction
Induced magneto-spheres
Titan
Enceladus
Mars
Venus
Comets