

Astrometric reduction of spacecraft observations of the natural satellites

A. Garmier (1), **V. Lainey** (1,2), S.Lounis (2), V. Dehant (1), W.Thuillot (2)

(1) Royal Observatory of Belgium, Belgium, (2) IMCCE, Observatoire de Paris, France

From the early Voyager era until Galileo and Cassini spacecrafts, a lot of observations of the natural satellites have been done. If some of them have been astrometrically reduced in the context of further missions, a lot of these observations remain unreduced or unpublished. Fortunately, most of these latter are available on the PDS (Planetary Data System). We have started to investigate the possibility to perform an astrometric reduction of these images. A set of softwares has been developed to fulfil this task. Once reduced, the observations will be used to improve the orbital dynamic of the related satellites.