

DORIS weekly solutions: Status report and open questions

P. Willis (1,2), J.C. Ries (3)

(1) *Institut Geographique National, Saint-Mande, France*

(2) *Jet Propulsion Laboratory, California Institute of Technology, USA*

(3) *Center for Space Research, University of Texas, USA*

Since the start of the International DORIS Service in 2003, several Analysis groups submitted weekly DORIS-derived station coordinate time series. After a brief review of the current existing DORIS solutions at NASA/CDDIS data center, we will discuss open questions. In a first step, we will focus on general issues common with other IERS techniques: station discontinuities, annual signals, non-linearity, advantages and disadvantages of making regular changes in the time series (vs a complete reprocessing). Finally, we will present a few issues specific to the DORIS technique: sensitivity to radiation over the South Atlantic Anomaly, phase center corrections in data files. Some choices concerning the data processing or and the delivery of results strategy needs to be discussed and adopted in close cooperation with the other IAG services and with the IERS.