



from ENVISAT to ALTIKA : Poyang Lake water level monitoring is now going on.

Sylviane DAILLET (1), Herve YESOU (2), Denis BLUMSTEIN (1), Stephane CALMANT (1), and Claire HUBER (2)

(1) LEGOS/CNES, SI/LG, TOULOUSE, France (sylviane.daillet-rochette@cnes.fr), (2) SERTIT, STRASBOURG, France

Since 10 years within the framework of the DRAGON ESA MOST program, a monitoring of Poyang Lake, the major fresh water lake in China, is realized, exploiting large sources of EO data. Thanks to ENVISAT altimeter measurements a 10 years long series is available.

As JASON2 do not fly over this lake, and ENVISAT operations stopped in 2010, a gap occurs in water level measurements with altimetry. The launch of SARAL/AltiKa mission in February 2013 flying the same historical 35-day orbit than previous European ERS and Envisat satellites is then of major importance.

In this work, all the altimetry data from AltiKa over Poyang Lake from 2013/03/14 are used for determination of water level. From cycle 1 to cycle 6, tracks are not yet settled on ENVISAT historical grid, but from track 7 altimetry measurements are valuable and allow the computation of a water level series of good quality.

The coherence between ENVISAT series and ALTIKA series already settled allows to conclude that monitoring with altimetry of Poyang Lake can go on.