

DORIS weekly station position time series. Status before ITRF2008 analysis





IGN/LAREG

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IDS workshop 2008 - Nice





DORIS weekly frame time series

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AC	Period		Acronym
LCA	2002.0	2008.0	wd19
IGN	1993.0	2008.0	wd07
IGN	1993.0	2008.6	wd06

DORIS weekly frame time series



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DORIS position time series





DORIS position time series :

Spectral content



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Comparison with GPS, SLR and VLBI position time series

 $A \cdot \cos(\omega \cdot T - \Phi)$

Only annual signal widely detected on the Height component for SLR, VLBI and GPS results (Collilieux et al., 2007)





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Comparison with GPS, SLR and VLBI position time series

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Time-variable annual signal : HARTEBEESTHOEK

Equipment changes

Satellite constellation changes

• Better agreement in translation and scale for IGN and LCA ACs

• Agreement of the EOP time series at (1.6,0.8) mas WRMS for (xp,yp). High frequency signals need to be understood.

• Significant improvement in IGN position time series since ITRF2005

 Larger annual signal for DORIS height time series. Clear improvement for the most recent data. Some discrepancies between IGN and LCA ACs at the annual frequency

• Evidence of <u>loading effect detection</u> for few sites with sufficient SNR. Confirms *Mangiarotti et al., 2001* conclusions.

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		November 10, 2008	Dissemination of the Call	
		February 10, 2009	Deadline for submissions by Technique/Analysis Centers	
-	+++	April 19-24, 2009	EGU: First results - Discussion	
		Until May 10, 2009	Analysis by the ITRF CCs	
		May 10 - June 10, 2009	Preliminary ITRF2008 solution for evaluation by TCs/ACs	
-		July 15, 2009	Final ITRF2008 solution	
		IDS workshop 2008 - Nice		

