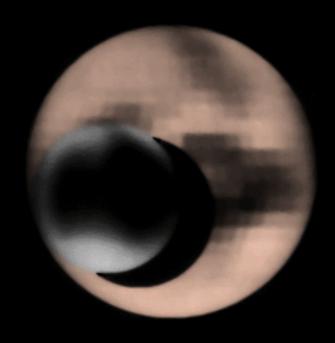
The Triton stellar occultation of 21 May 2008

Bruno Sicardy, Y. Boissel, F. Colas, A. Doressoundiram, J. Lecacheux, T. Widemann, M. Castets, E. Frappa, G. Blanchard, T. Payet, J.-P. Teng, K.-L. Bath, W. Beisker, H.-J. Bode, G. Roy, B. Thome, C. de Witt, P. Schönau, D. Buckley, N. Loaring, O. Bernard, M. Assafin, J. Camargo, D. da Silva Neto, F. B. Ribas, A. Andrei, R. Vieira Martins, R. Behrend

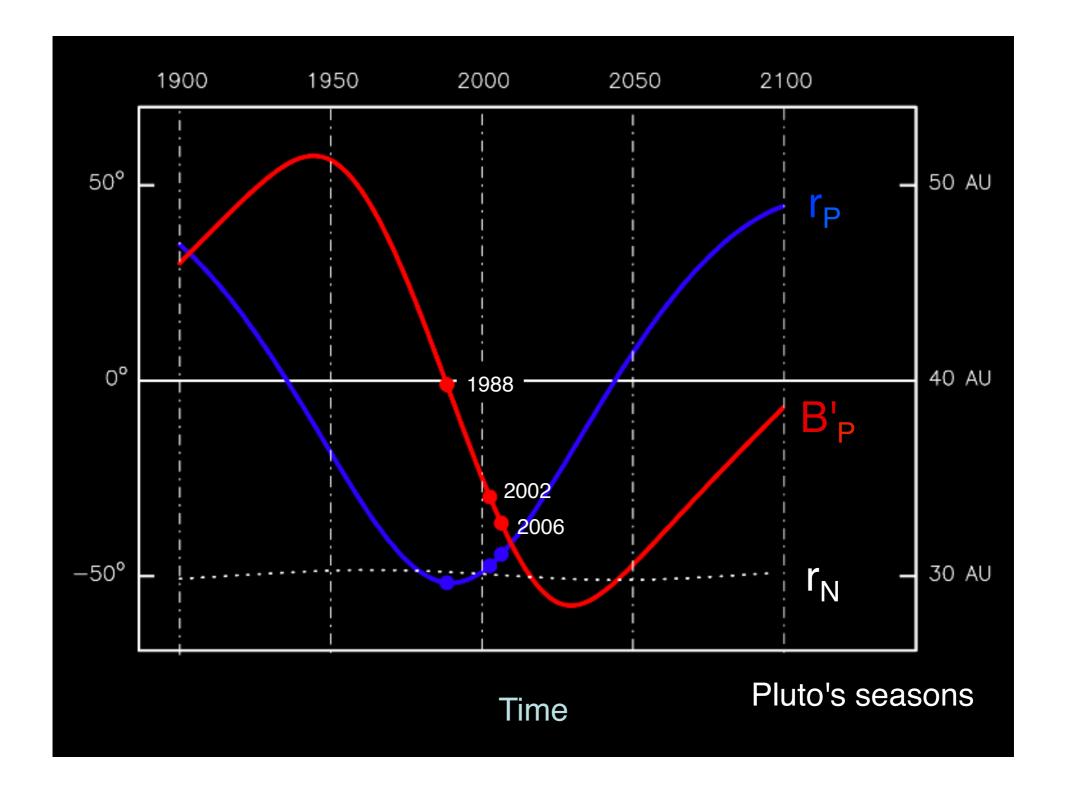


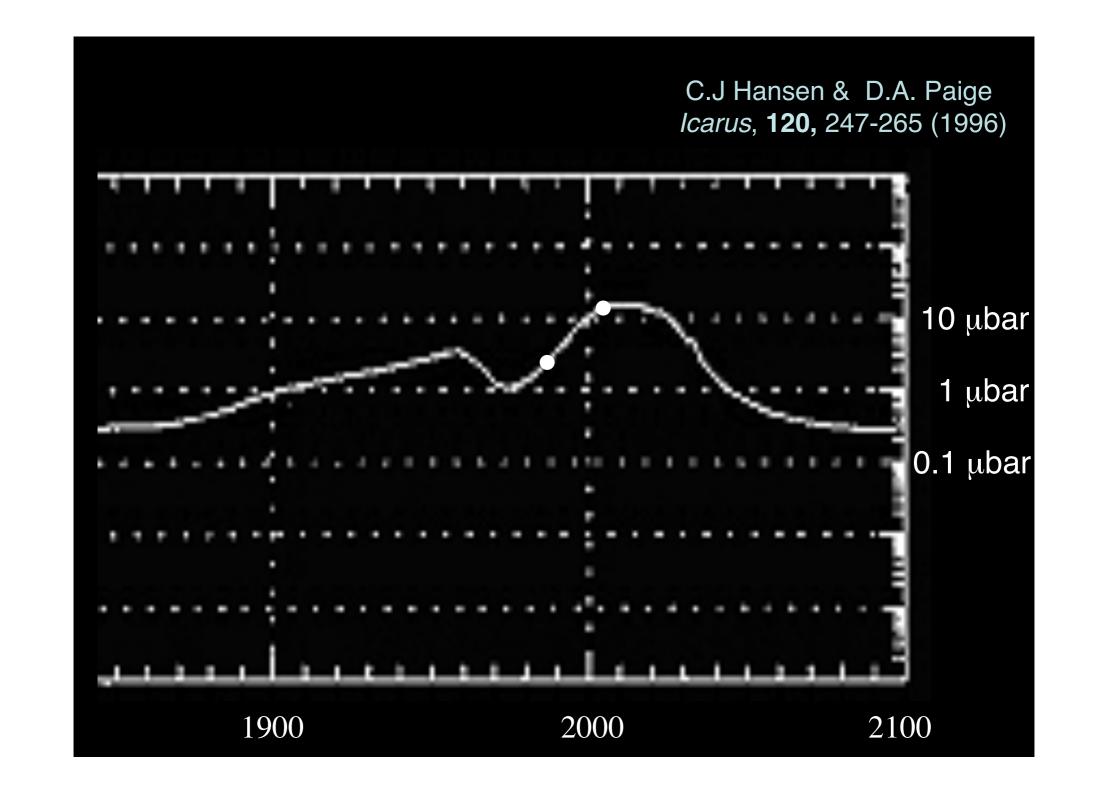


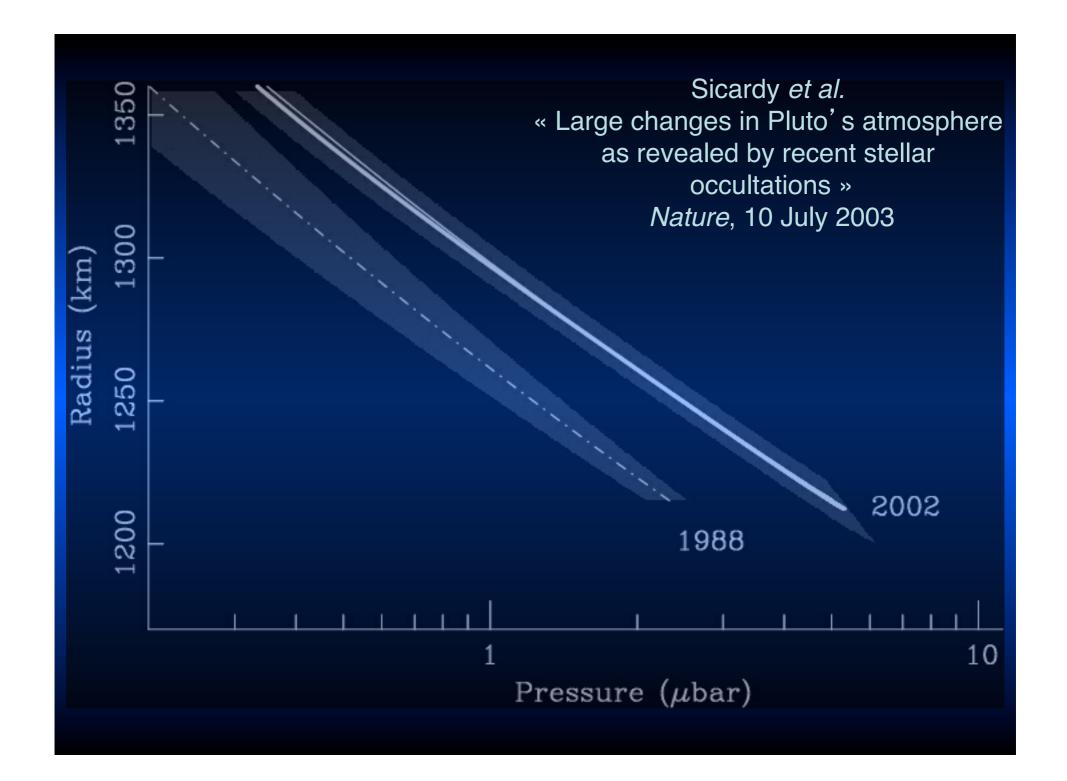


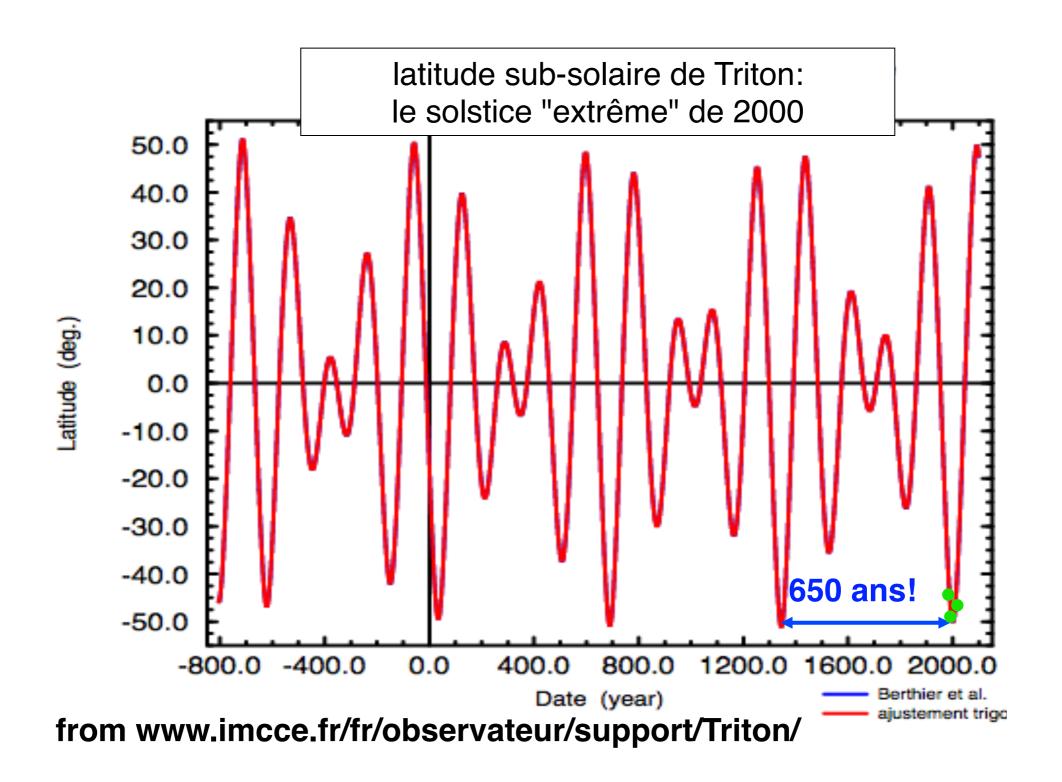
Triton

Pluto & Charon

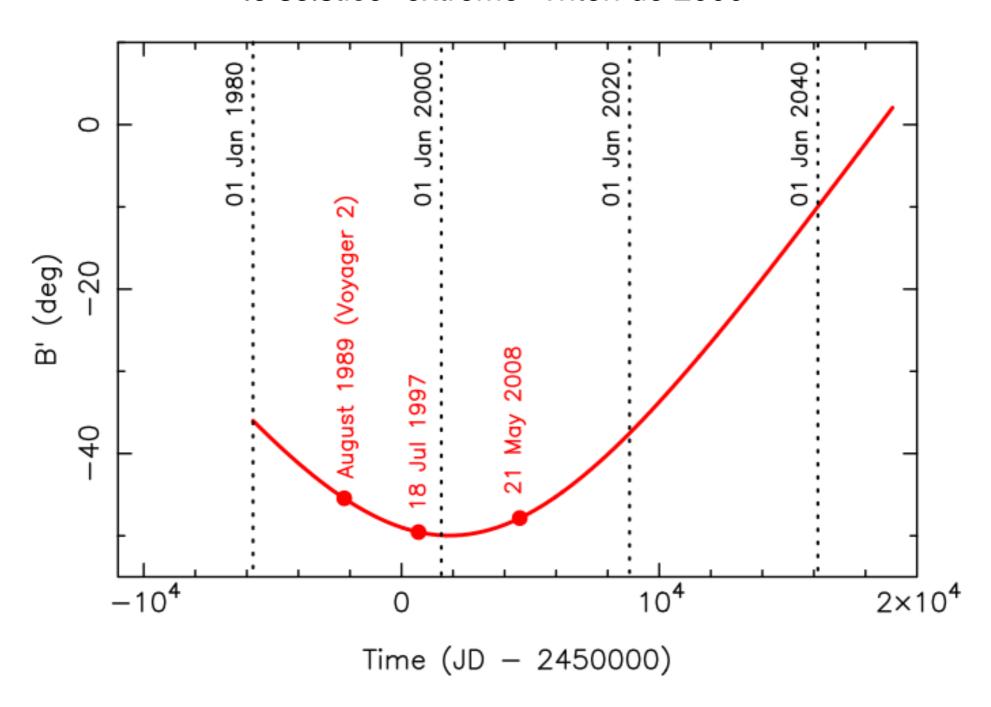


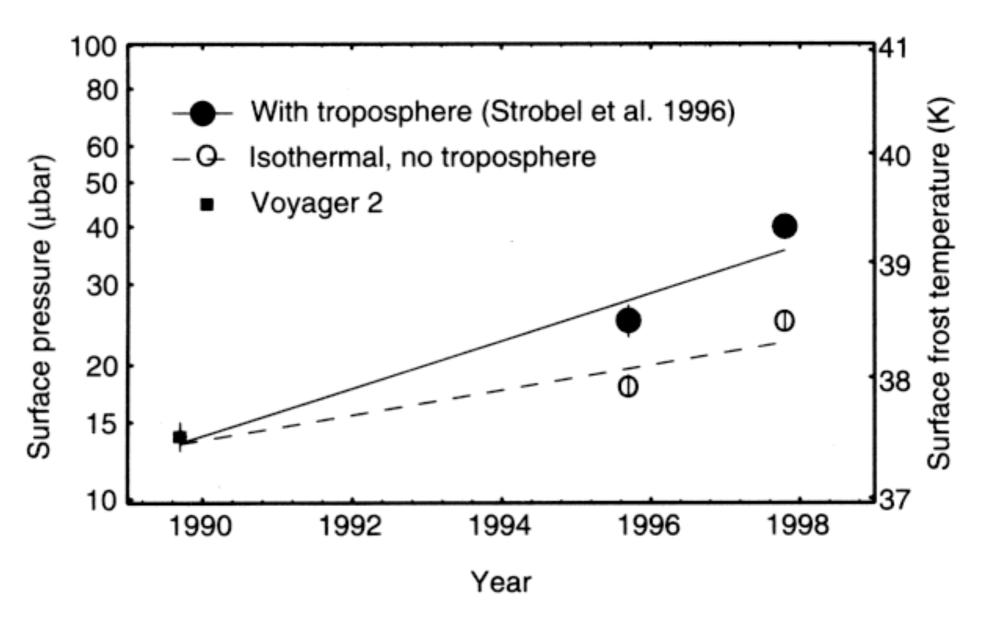




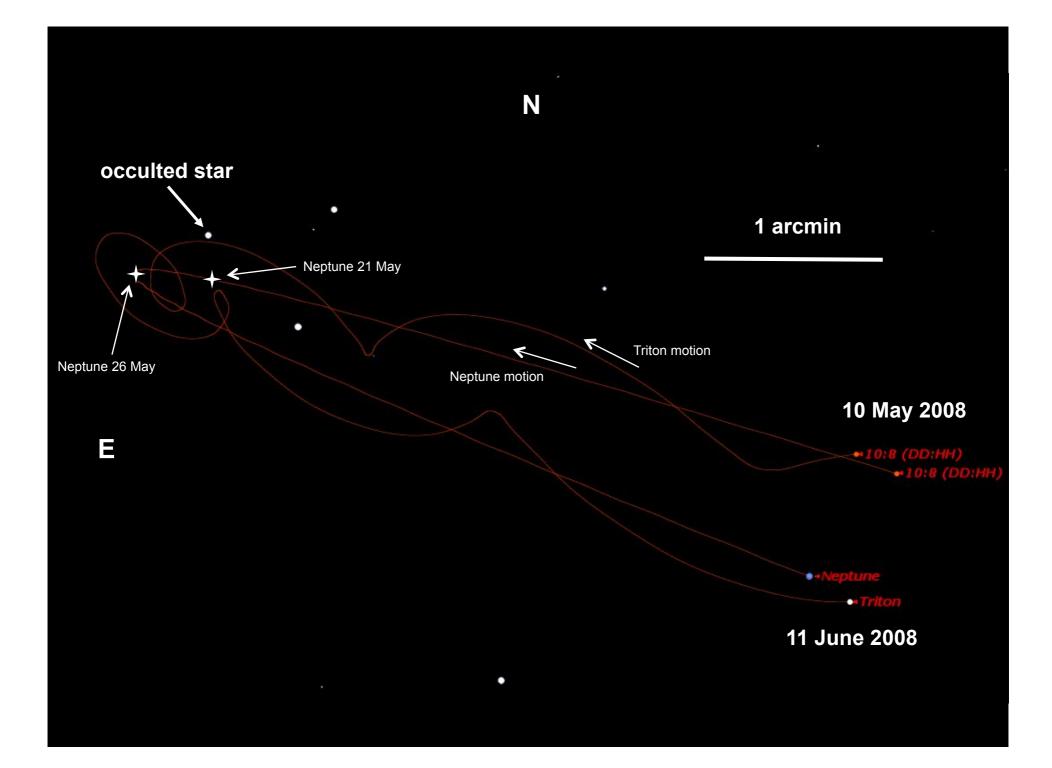


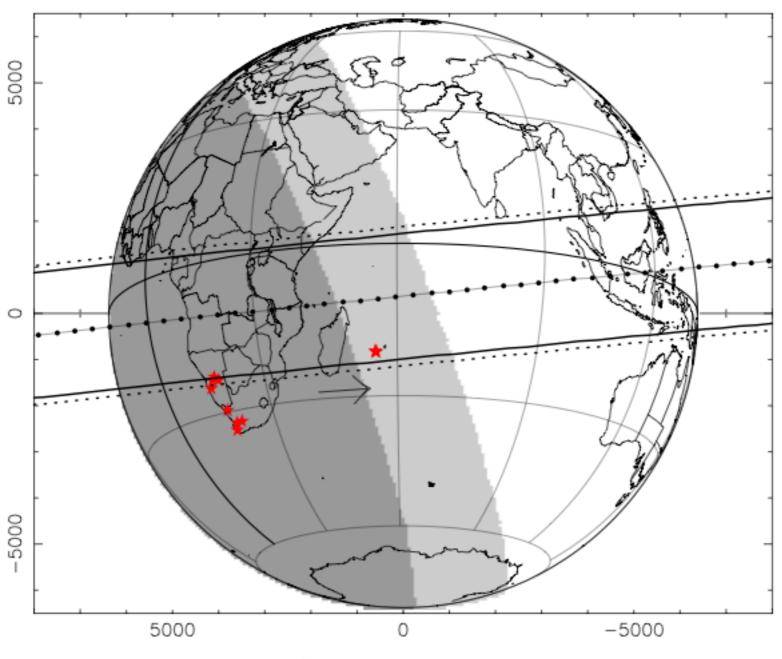
le solstice "extrême" Triton de 2000



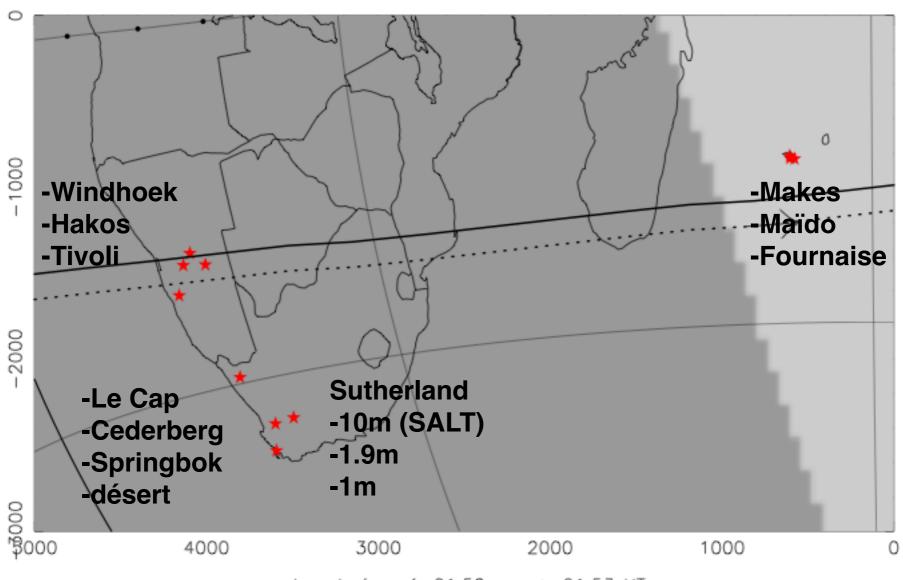


"Global warming on Triton" (?) Elliot et al., Nature 393, 765 (1998)



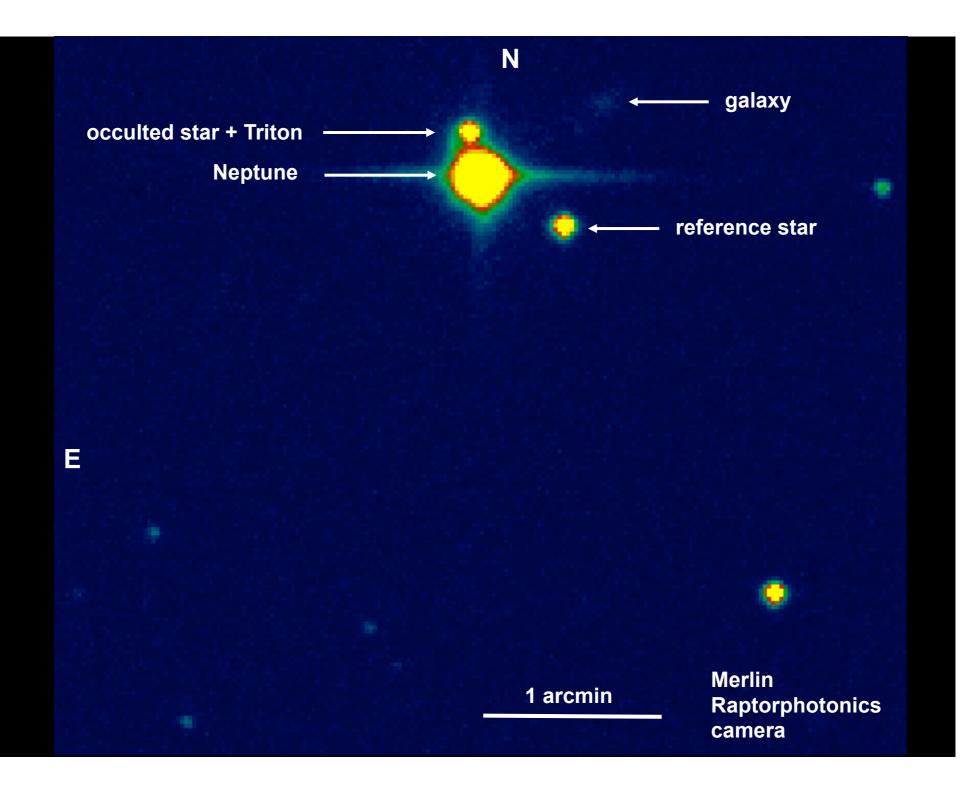


chanat siane £: 01:52 ---> 01:53 UT

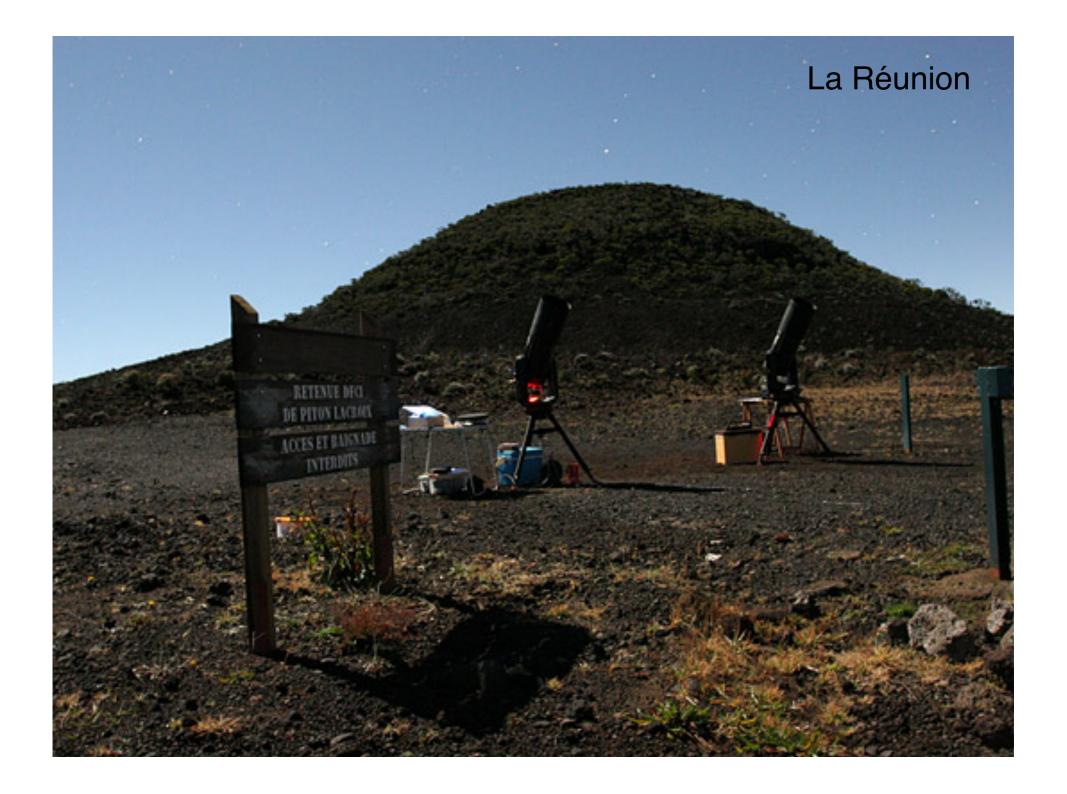


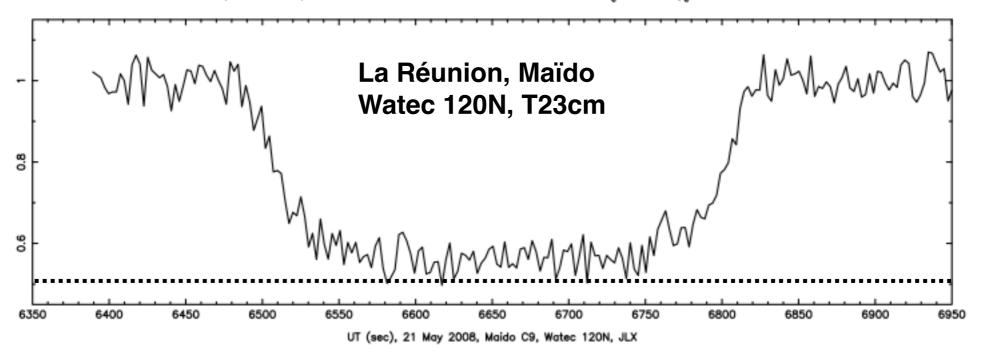
changt signe \$: 01:52 ---> 01:53 UT



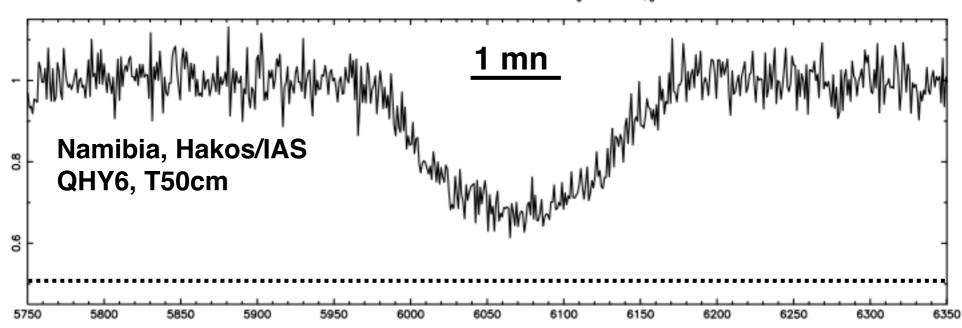


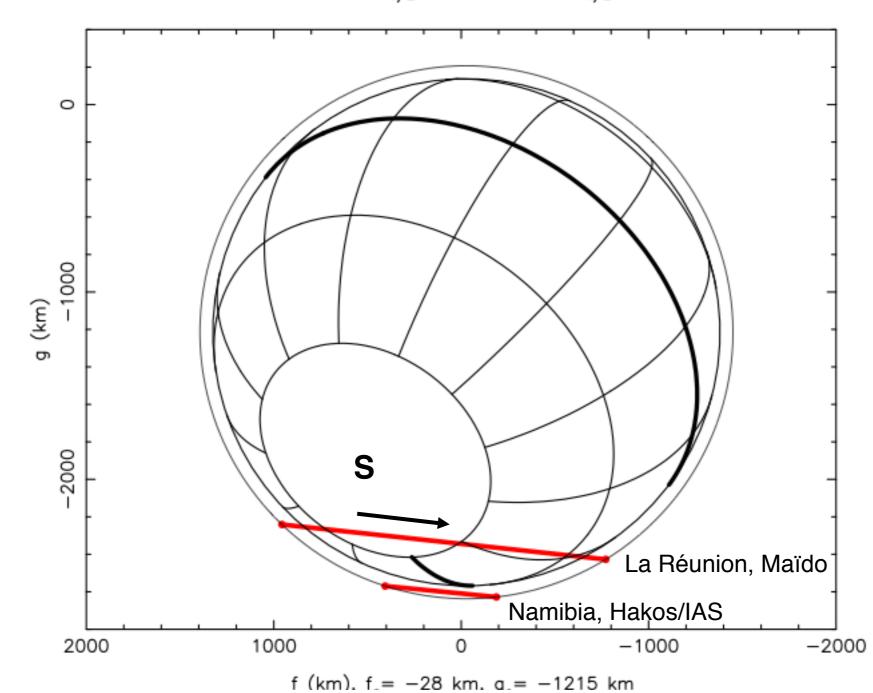
Hakos/IAS T50cm QHY6 camera from KL Bath

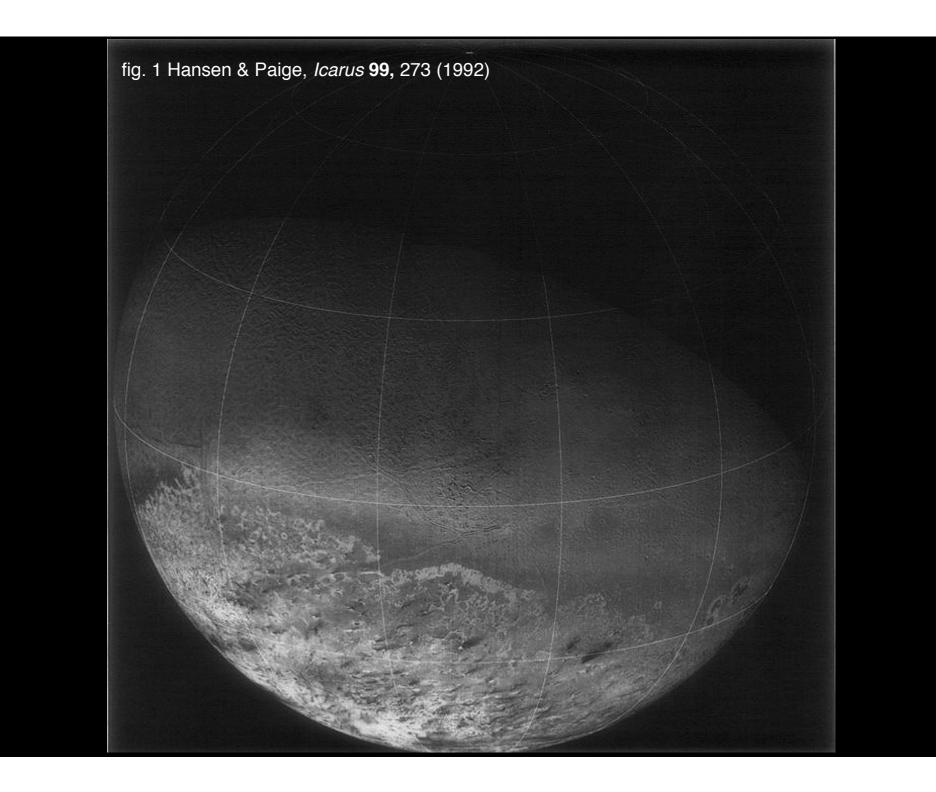




Photom 1D, blue: fort.28, red: fort.37, model T7 Strobel, $x_c = -28$ km, $y_c = -1215$ km







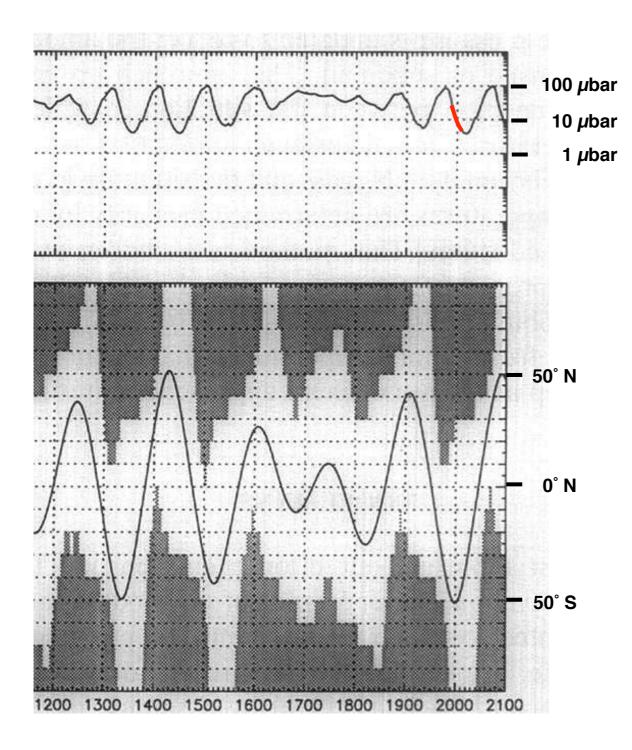
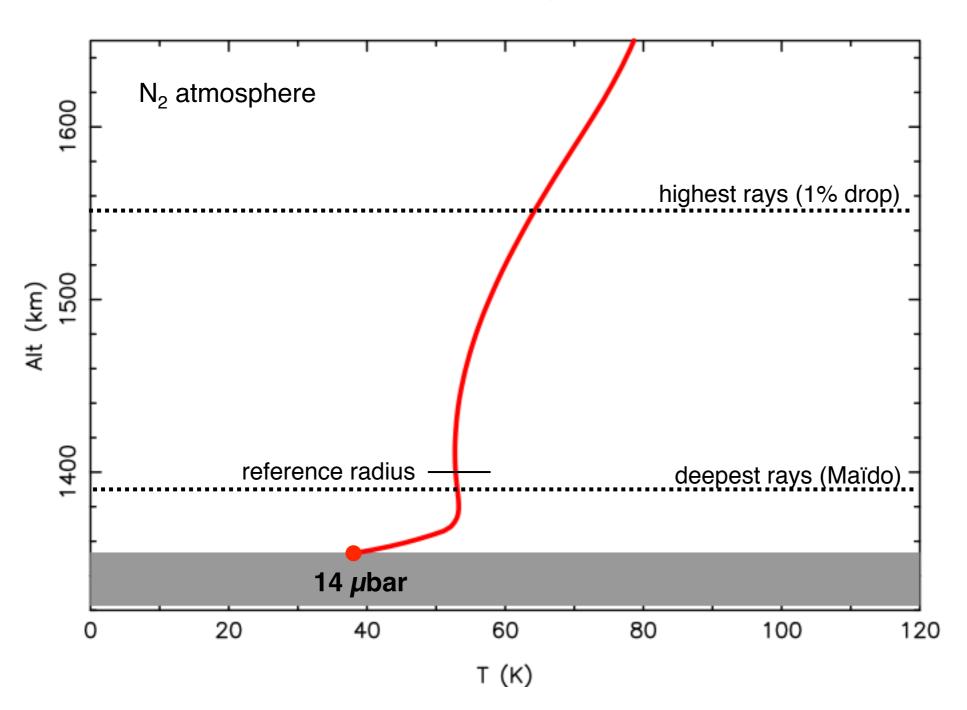
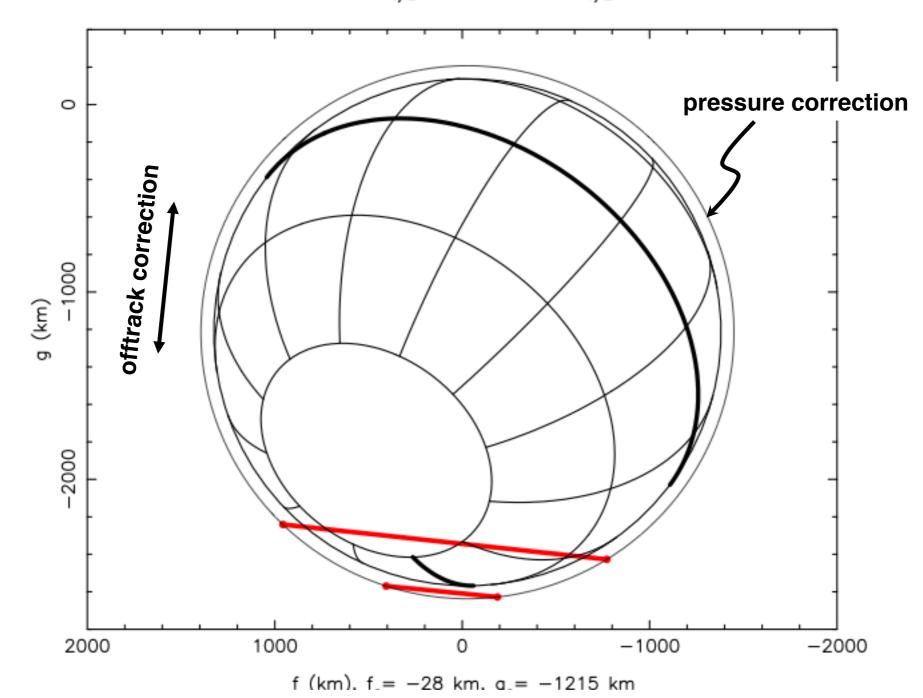
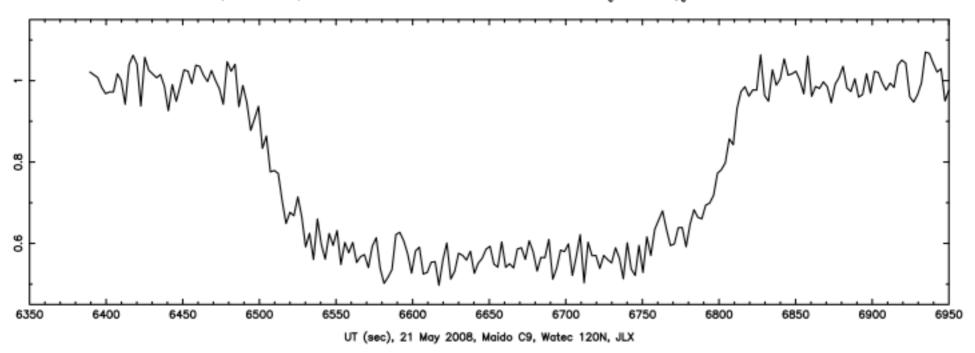


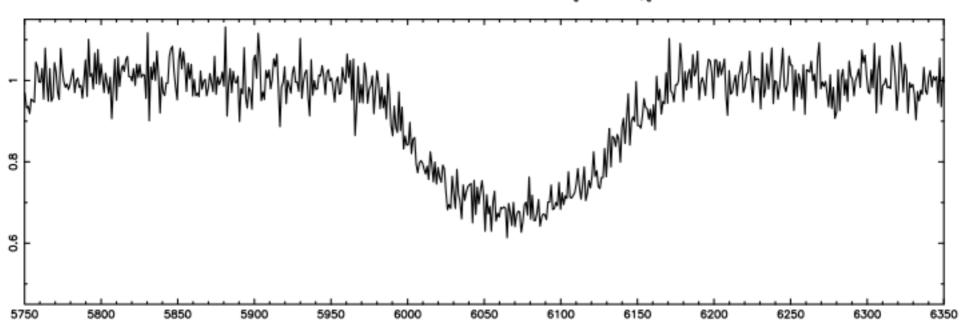
fig. 3 Hansen & Paige *Icarus* **99**, 273 (1992)

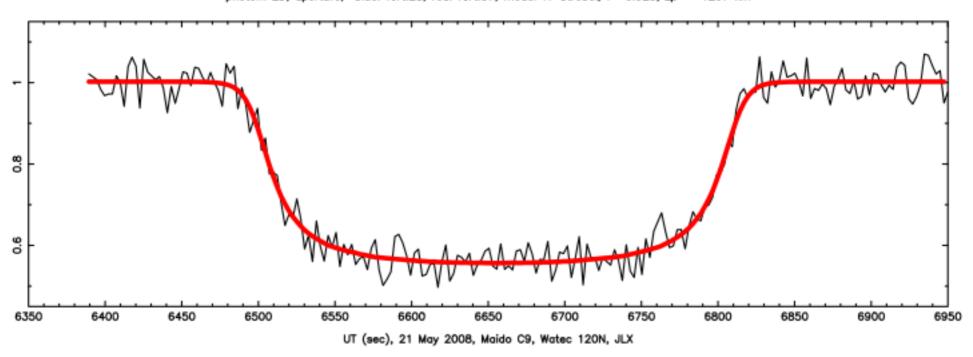




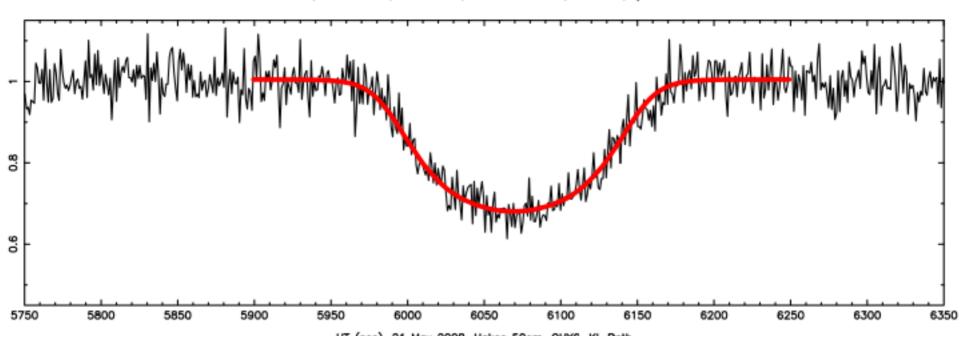


Photom 1D, blue: fort.28, red: fort.37, model T7 Strobel, $x_c = -28$ km, $y_c = -1215$ km

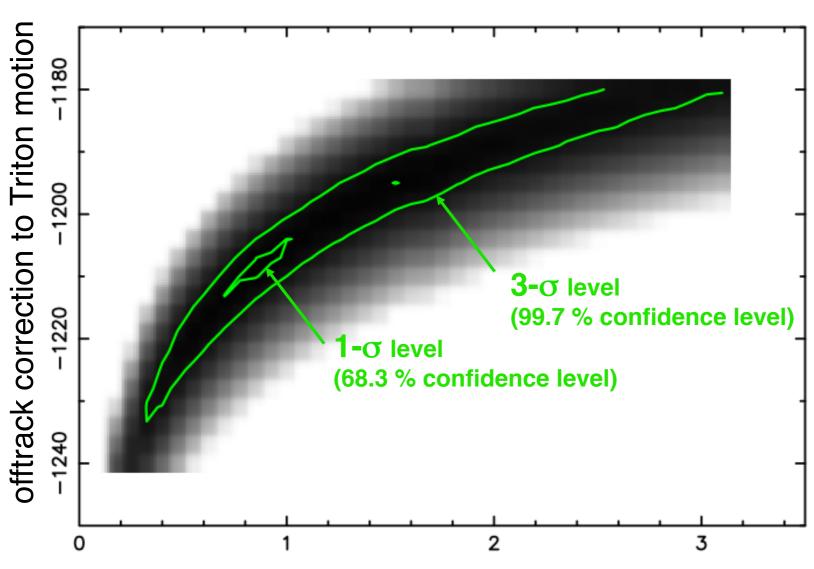




Photom 1D, blue: fort.28, red: fort.37, model T7 Strobel, f= 0.925, Δρ= -1207 km

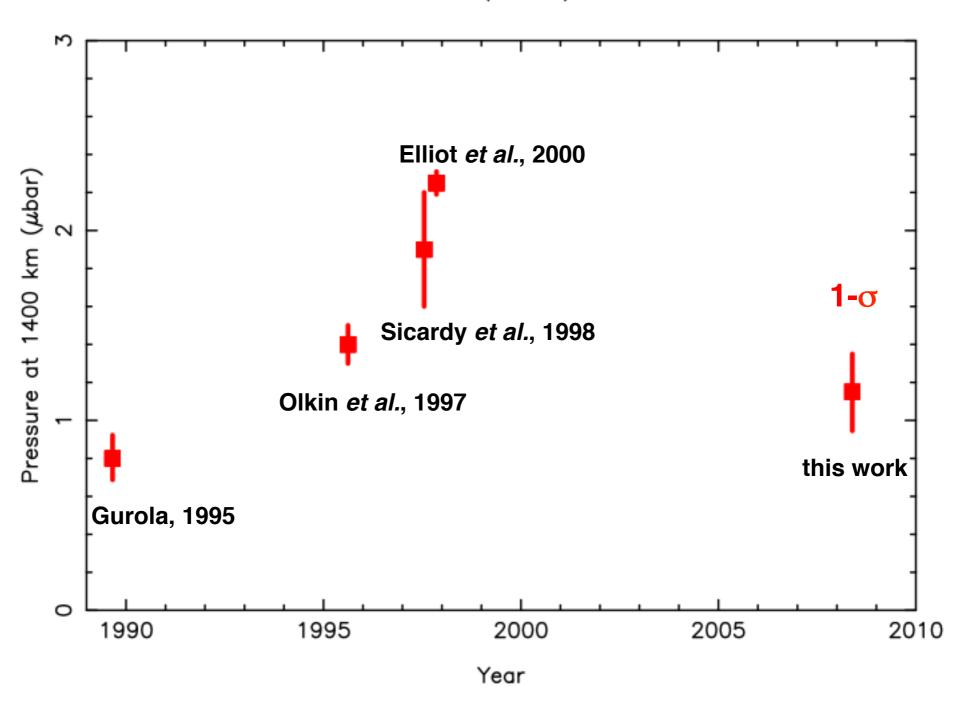


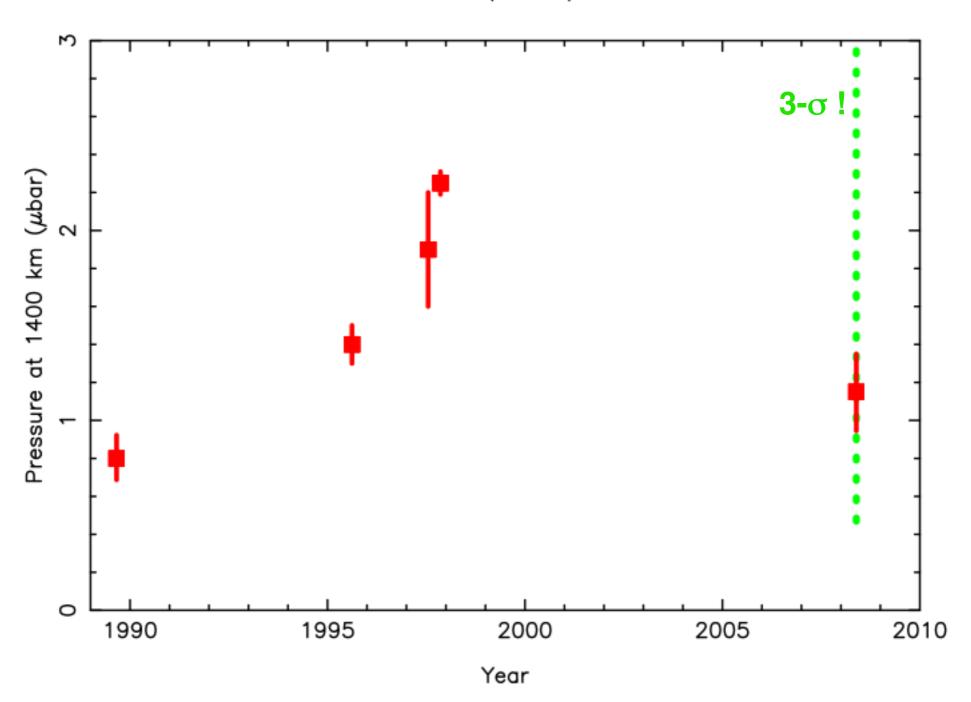
Triton, 21 May 07, Hakos 50cm, Maido C9, 559 points, Strobel et al. T7

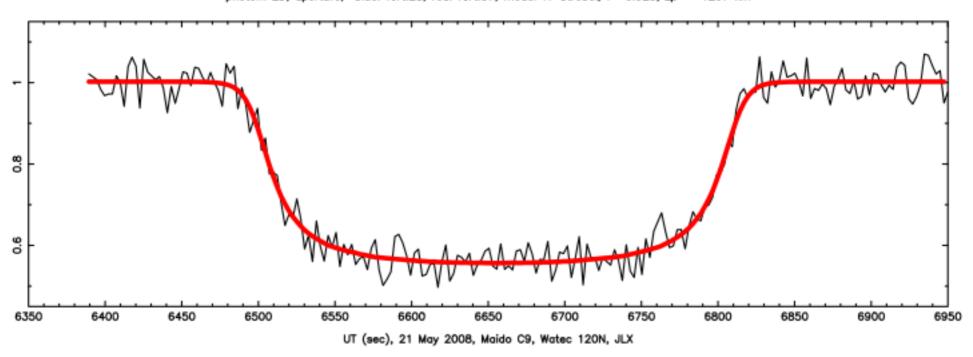


Pressure expansion factor wrt T7 Strobel et al.

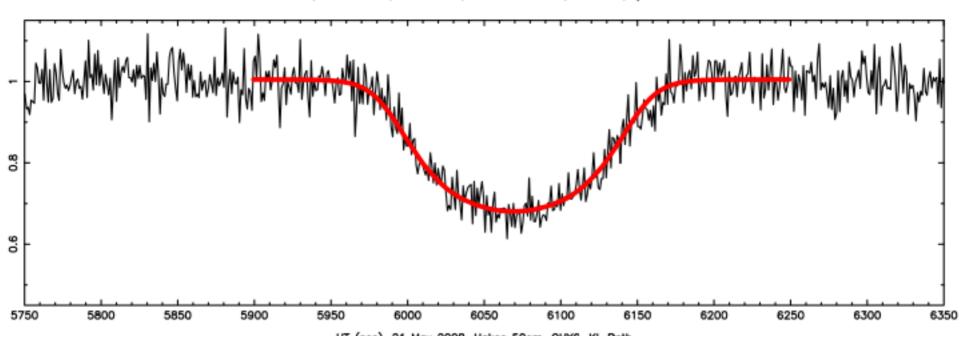
Triton atmospheric pressure

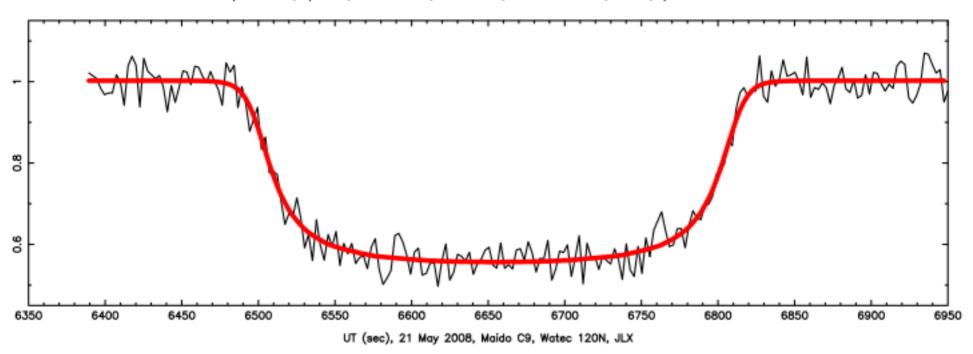




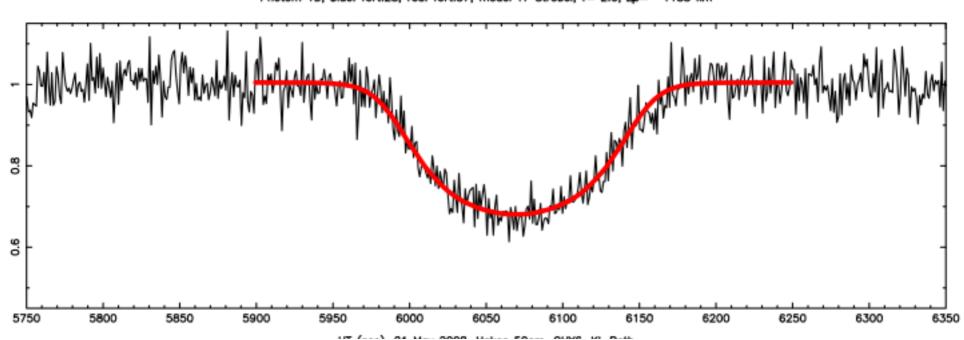


Photom 1D, blue: fort.28, red: fort.37, model T7 Strobel, f= 0.925, Δρ= -1207 km





Photom 1D, blue: fort.28, red: fort.37, model T7 Strobel, f= 2.0, Δρ= -1188 km



conclusions

- 21 May 2008: first stellar occultation by Triton since 1997
- back to 1995 situation at 1- σ level
- large error bars, however, due to grazing geometry. Better results with + light curves and improves zero stellar flux calibration
- Triton offset wrt DE405: -1 \pm 30 mas in α and -56 \pm 30 in δ



we'll be back...