

**Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones
from Juno/JIRAM**

M.L.Moriconi¹, A. Migliorini², F. Altieri², A. Adriani², A. Mura², G. Orton³, J. I. Lunine⁴, D. Grassi², S. K. Atreya⁵, A. P. Ingersoll⁶, B. M. Dinelli¹, S. J. Bolton⁷, S. Levin³, F. Tosi², R. Noschese², C. Plainaki⁸, A. Cicchetti², G. Sindoni⁸ and A. Olivieri⁸.

¹CNR-Istituto di Scienze dell'Atmosfera e del Clima, Bologna, Italy

²INAF-Istituto di Astrofisica e Planetologia Spaziali, Rome, Italy

³Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Drive Pasadena, CA 91109 USA

⁴Cornell University, 410, Thurston Avenue, NY 14850-2488 USA

⁵University of Michigan, 500 S. State Street, Ann Arbor, MI 48109 USA

⁶California Institute of Technology, 1200 E. California Blvd., Pasadena, CA 91125 USA

⁷Southwest Research Institute, 6220 Culebra Road, San Antonio, TX 78238 USA

⁸Agenzia Spaziale Italiana, Via del Politecnico snc, 00133 Roma, Italy

Contents of this file

Figures S2 and S3

Introduction

This supporting information provides the PJ9 brightness sample before and after the resampling operation together with the residuals from the comparison (Figure S2) and the χ^2 variation curves relative to the spectral fitting of Figure 3 in the manuscript (Figure S3).

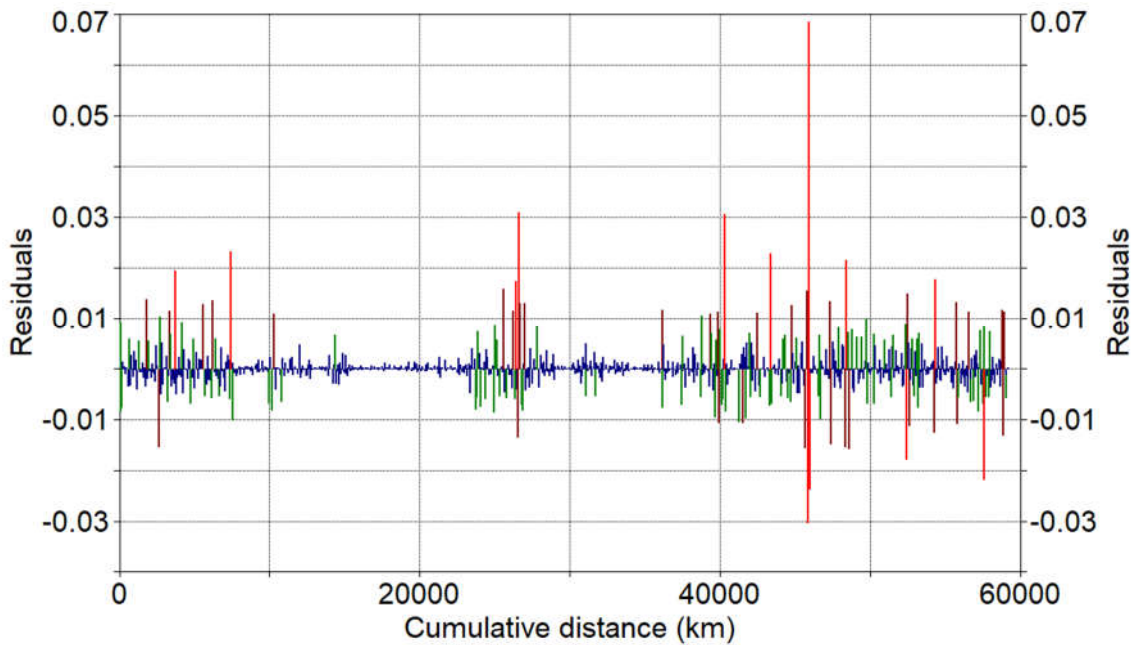
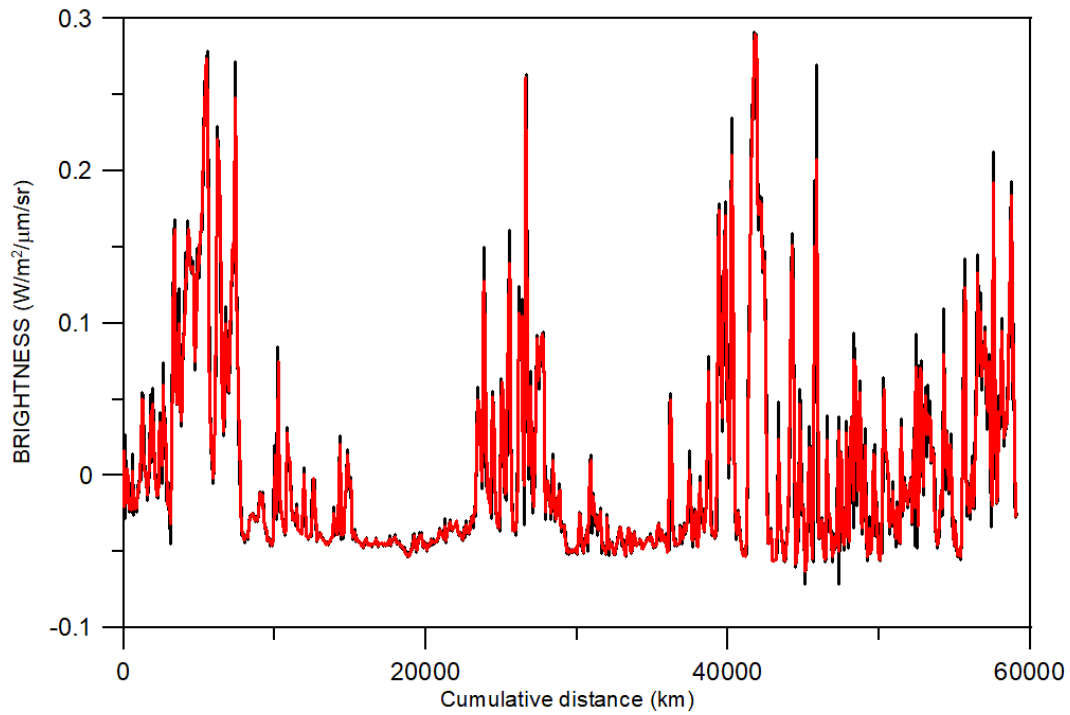
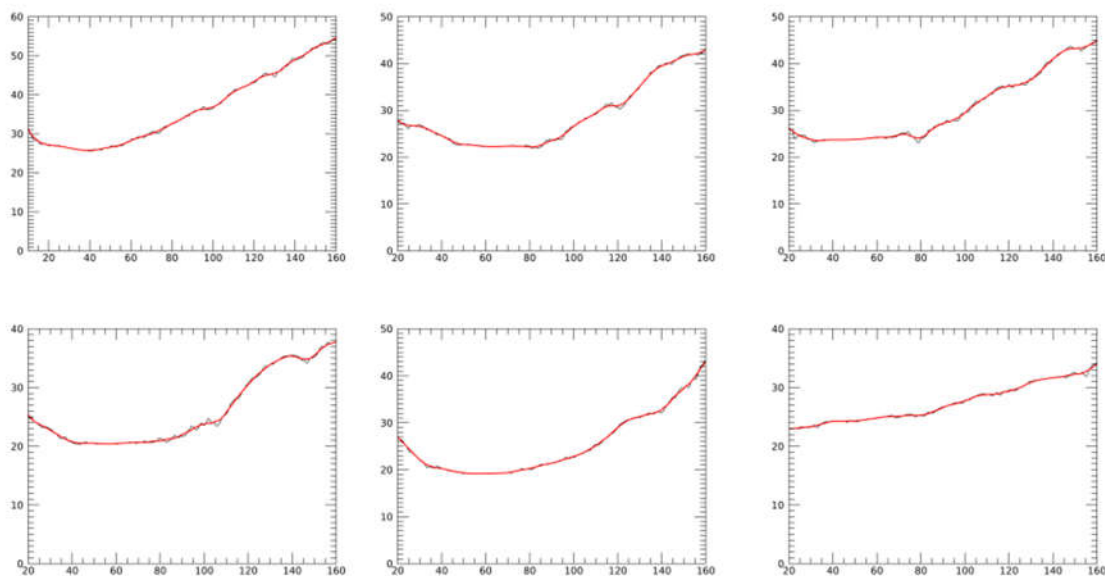


Figure S2. The PJ9 brightness sample before (black) and after (red) the resampling operation; b) the plot of the residuals, intended as difference between the sample data value and the ones predicted from the fit. The color scale is: blue < 1 sd, green < 2 sd, maroon < 3 sd, red > 3 sd.

Poleward



Equatorward

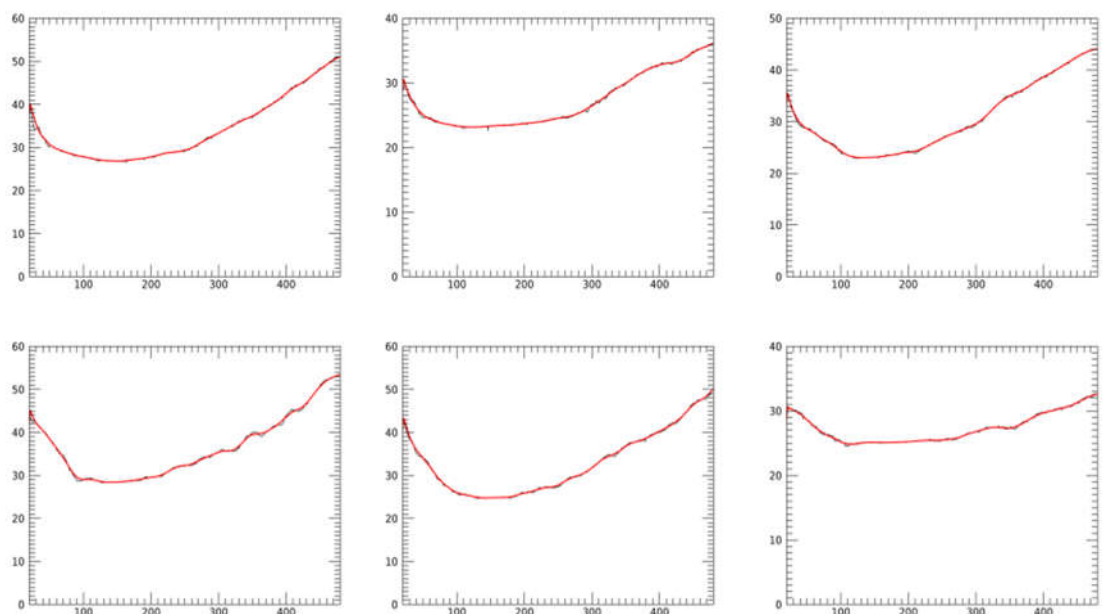


Figure S3. χ^2 variation curves, relative to the spectral fitting calculations producing the slopes reported in Figure 3 of the manuscript, are shown. The wavenumber transition values k_f in Figure 3 have been determined by the correspondent χ^2 curve minima. The progressive position of the free parameter k_f and the χ^2 values are reported on the x- and y-axis respectively.