

# *Jupiter in 2010/11: Report no.24 (2011 Sep.17)*

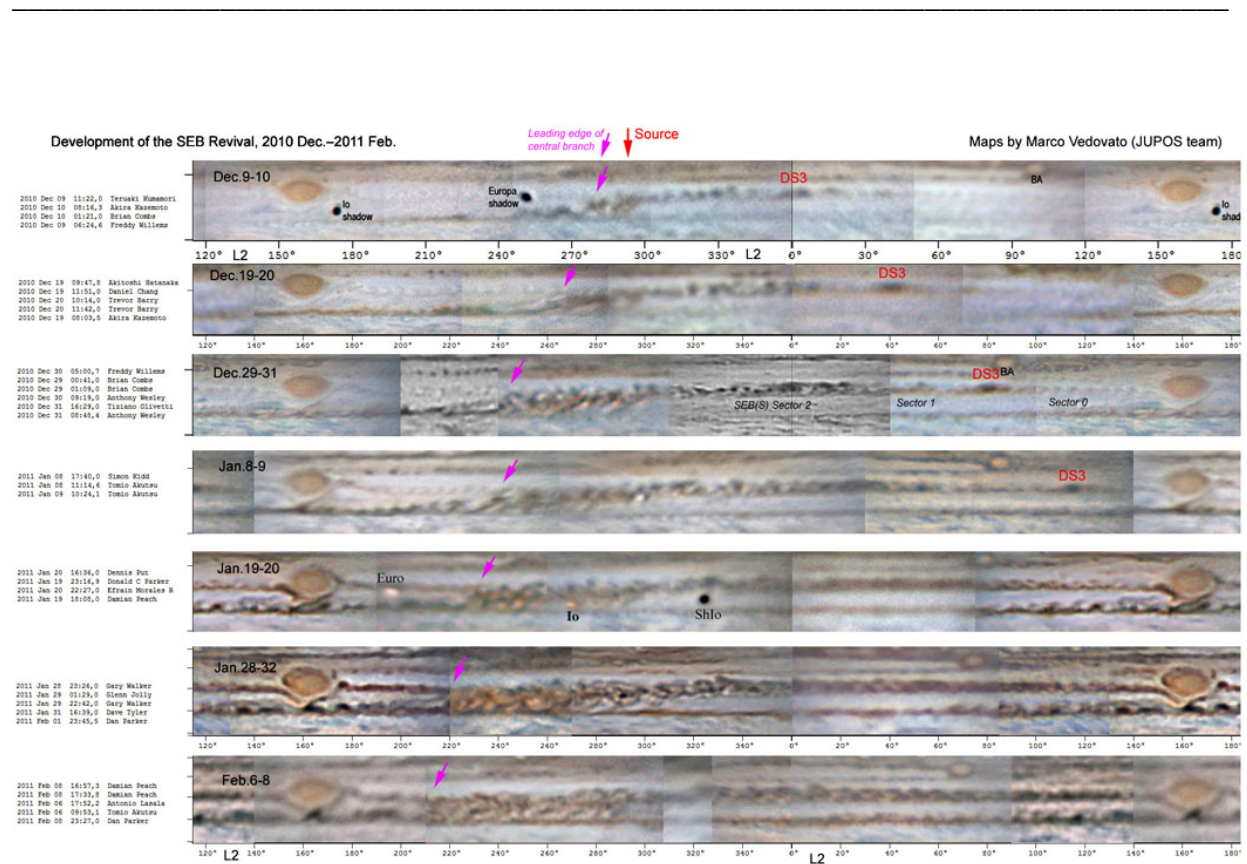
## **The SEB Revival: final interim report**

**John Rogers (British Astronomical Association)**

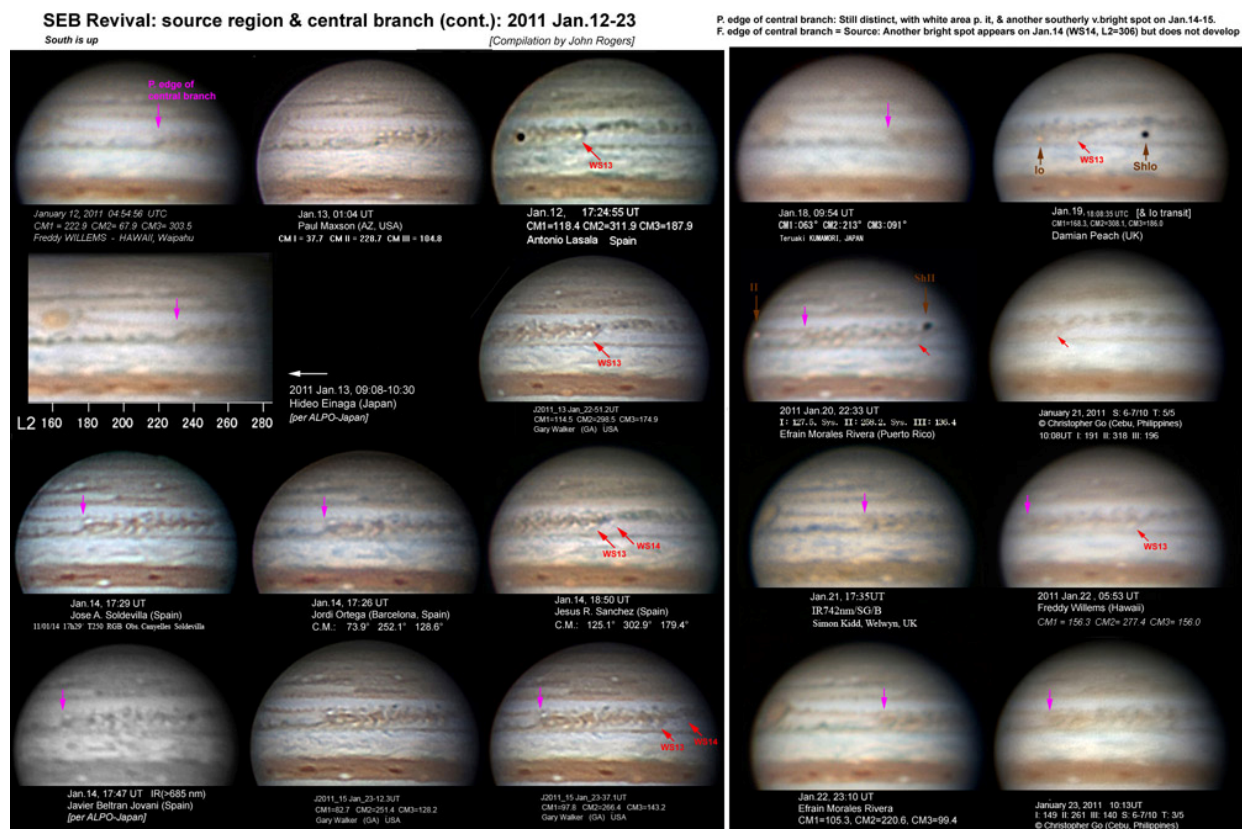
*with data from Hans-Jörg Mettig, Gianluigi Adamoli, Michel Jacquesson & Marco Vedovato (JUPOS project).*

## **Figures**

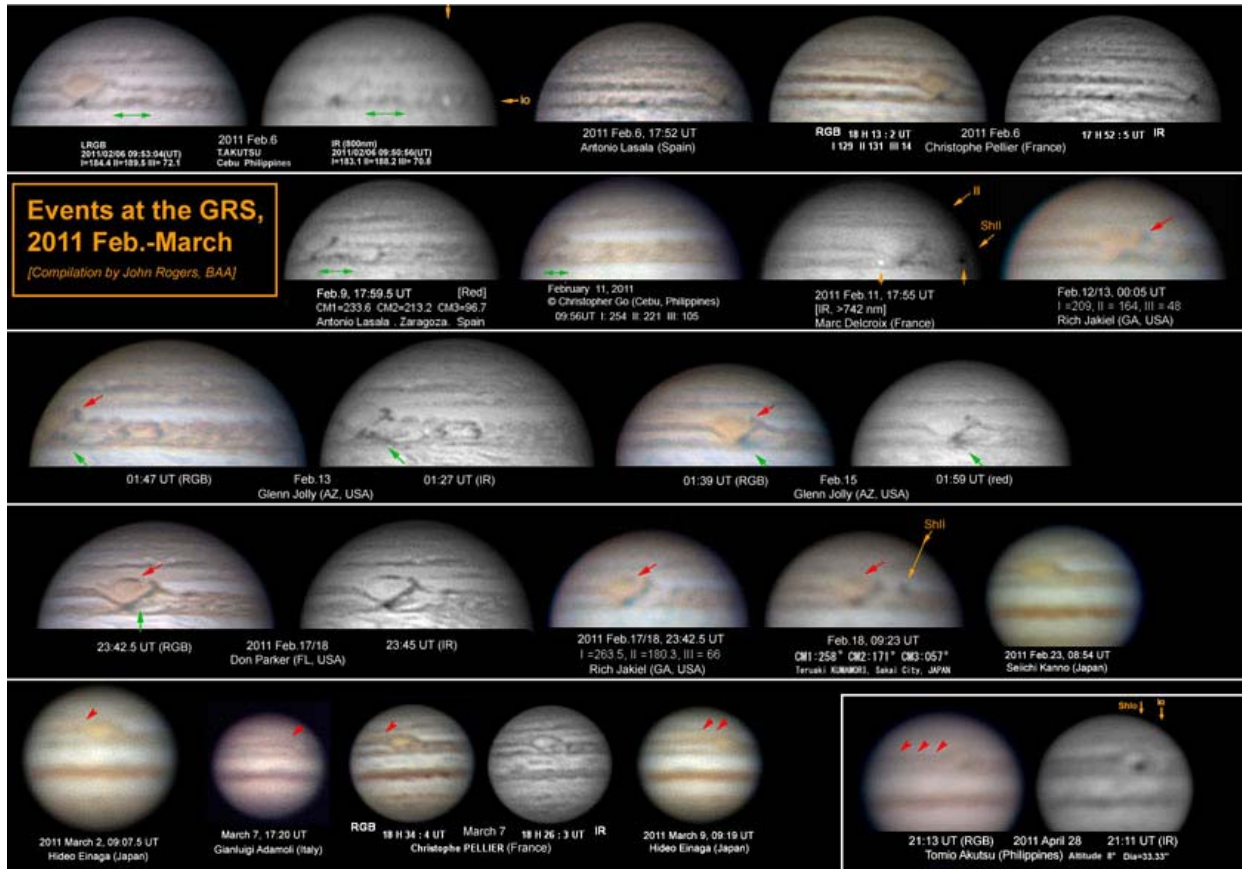
*These are small copies; see posted Zip file for full-size figures.*



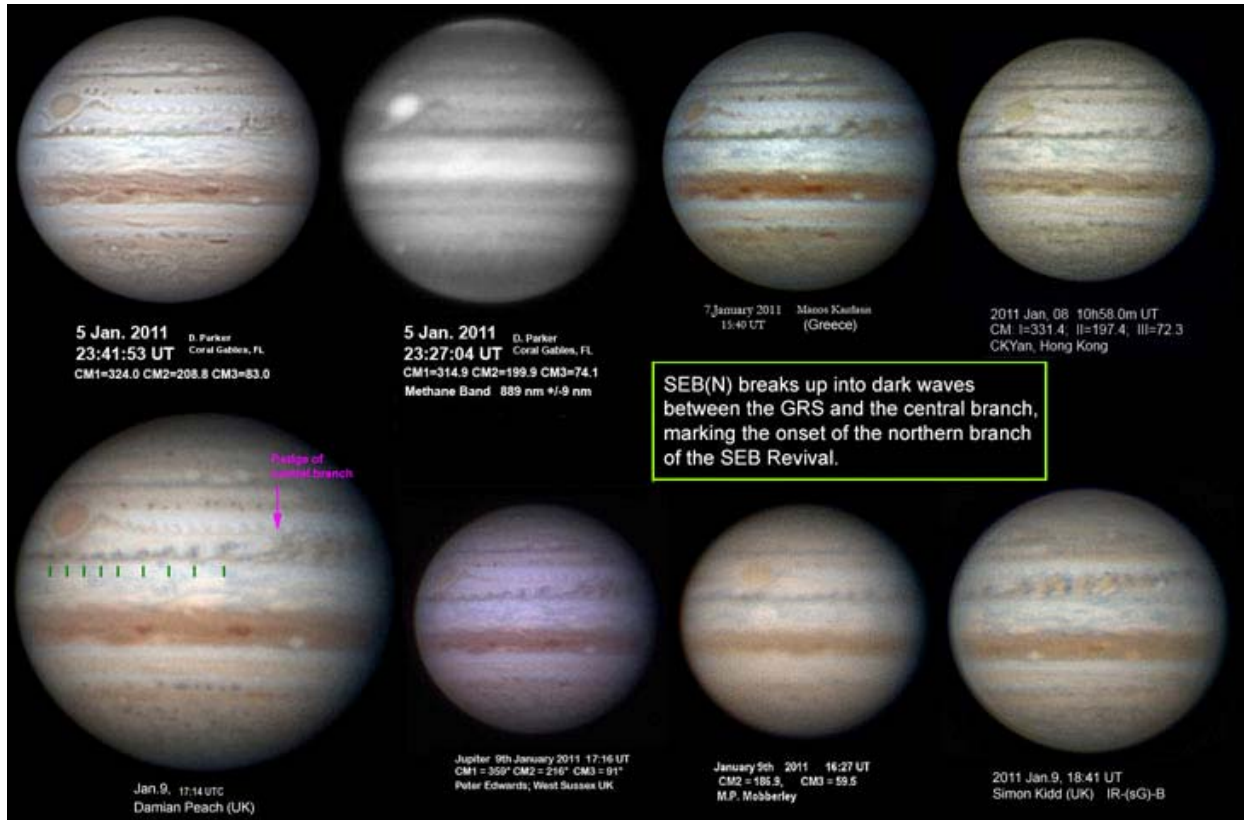
**Fig.1.** Development of the SEB Revival, 2010 Dec.- 2011 Feb.: Maps made by Marco Vedovato.



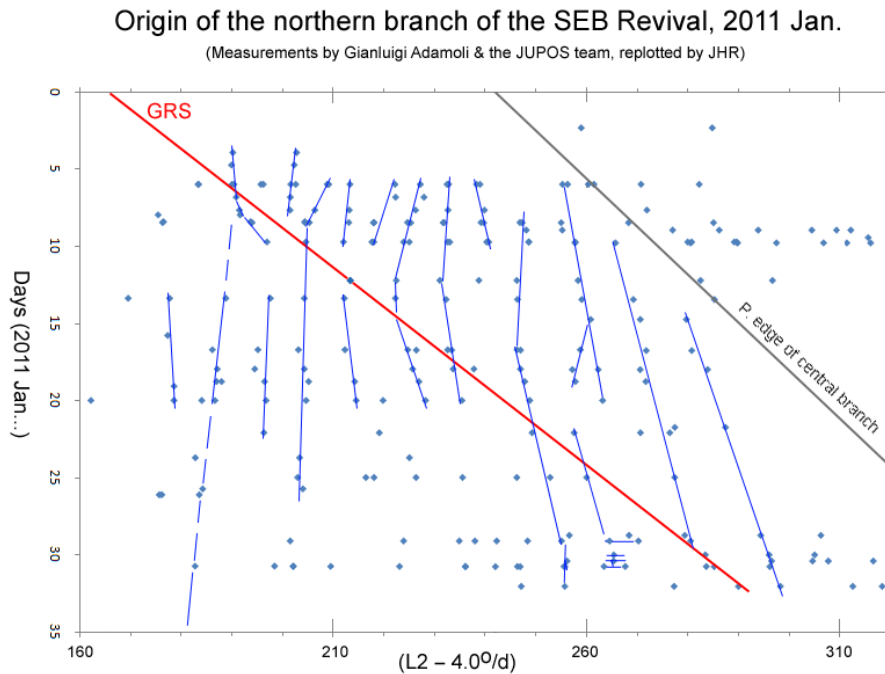
**Fig.2.** Images of the source regions and central branch, 2011 Jan.12-23.



**Fig.3.** Events at the GRS, 2011 Feb.-March, with dark streaks extending around it, and probable origin of S.Trop.Band at its p. edge around March 2. See text for description of indicated features.



**Fig.4.** Onset of the northern branch of the SEB Revival: Images from 2011 Jan.5-9, showing the SEB(N) f. the GRS breaking up into very dark ‘waves’.

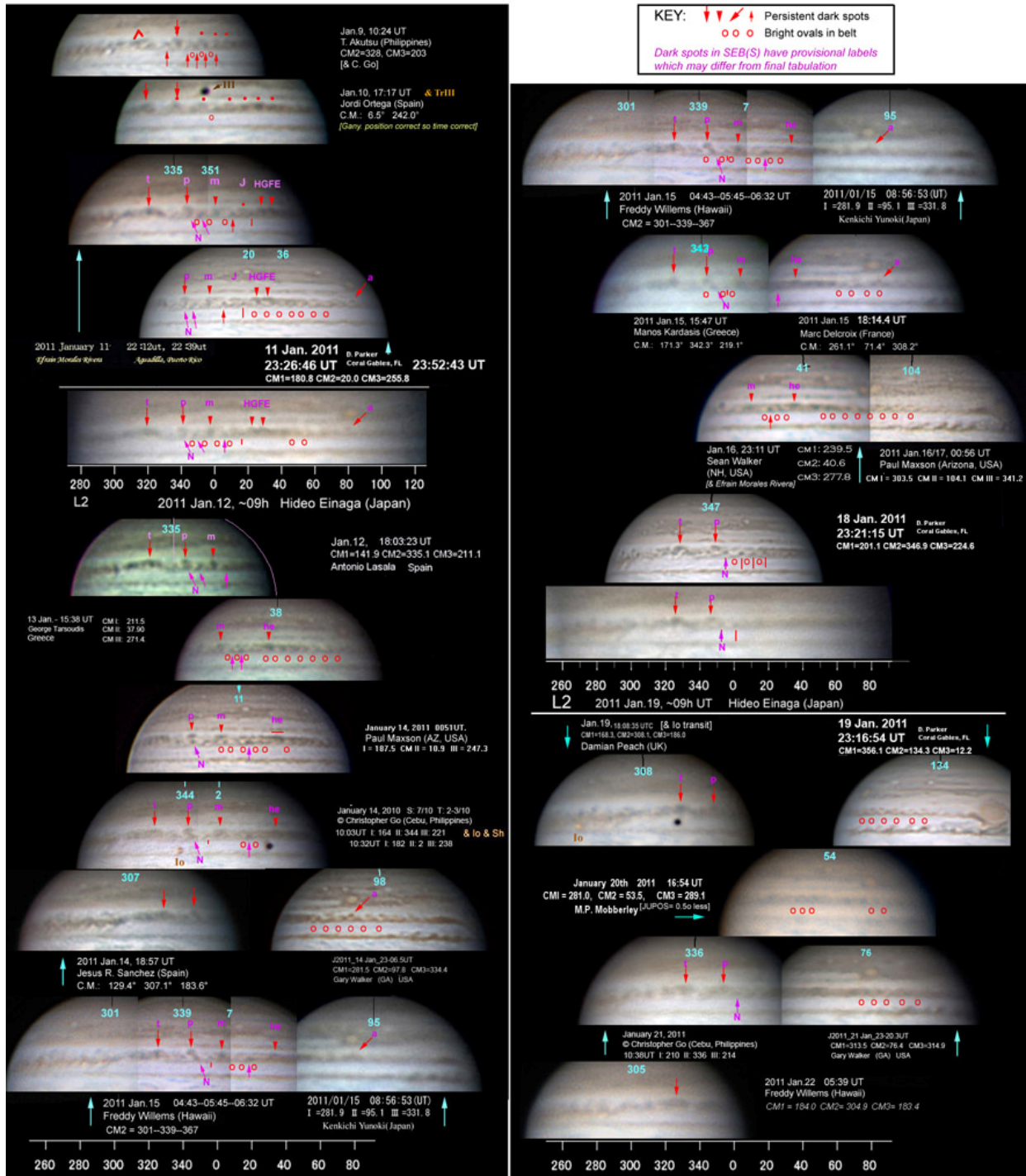


**Fig.5.** Onset of the northern branch of the SEB Revival: Chart of longitude vs time. Longitude is in a system moving at 4.0 deg/day relative to System II.



# SEB Revival: Southern branch, 2011 Jan.11-22

[Compilation by John Rogers, BAA]



**Fig.6.** Images of the southern branch, 2011 Jan.11-22. This was a working chart with identifiable dark spots in SEB(S) marked. Small white ovals developing in SEB(S) are marked with red circles below. These were the spots measured for the chart in Fig.9. (Labels were provisional and may differ from final designations in Fig.9 and Table 1).

Fig.7: S. branch of SEB Revival, 2011 Jan.22-31

[Compilation by John Rogers, BAA]

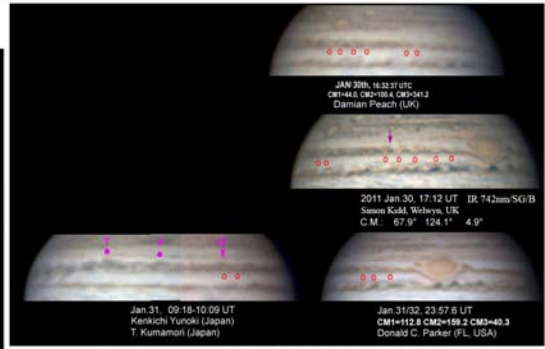
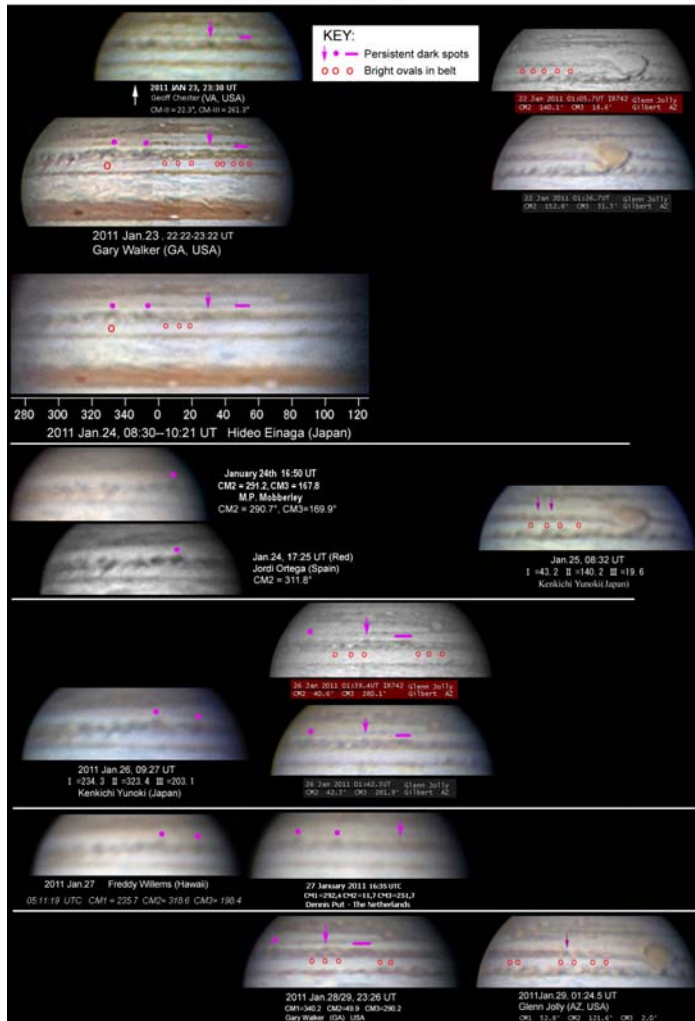
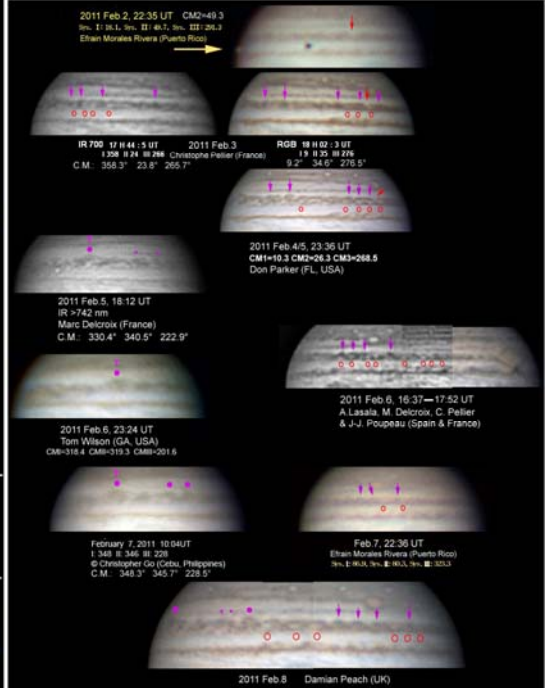
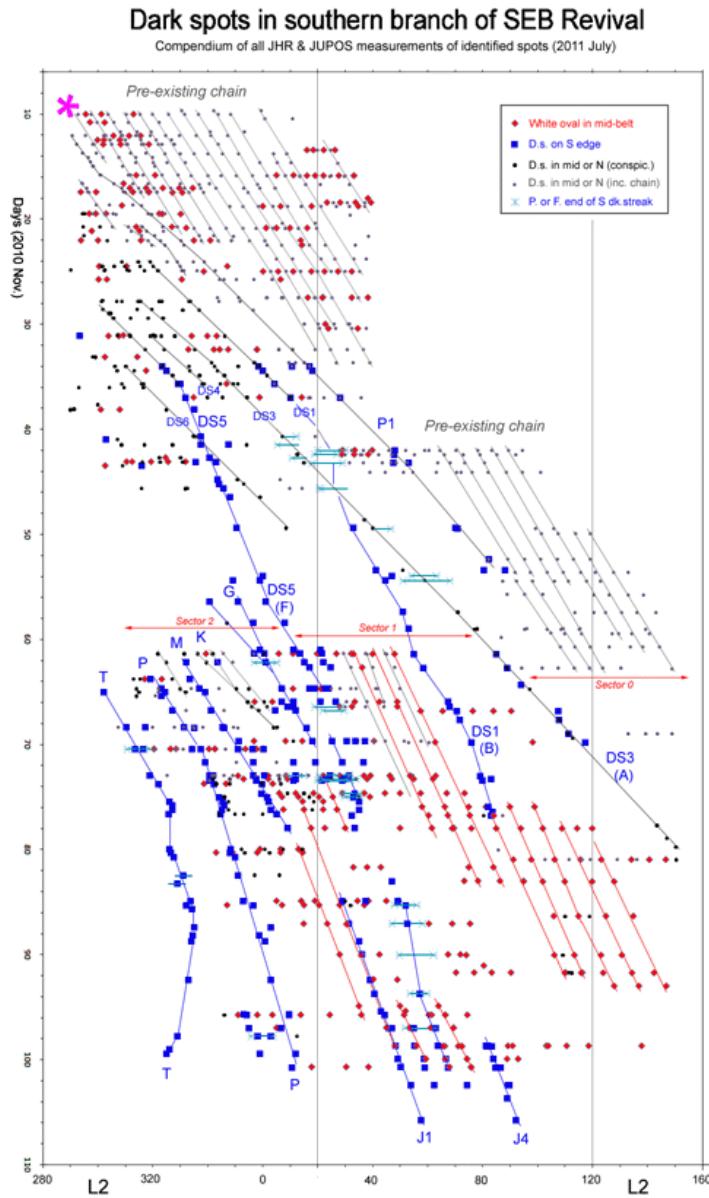


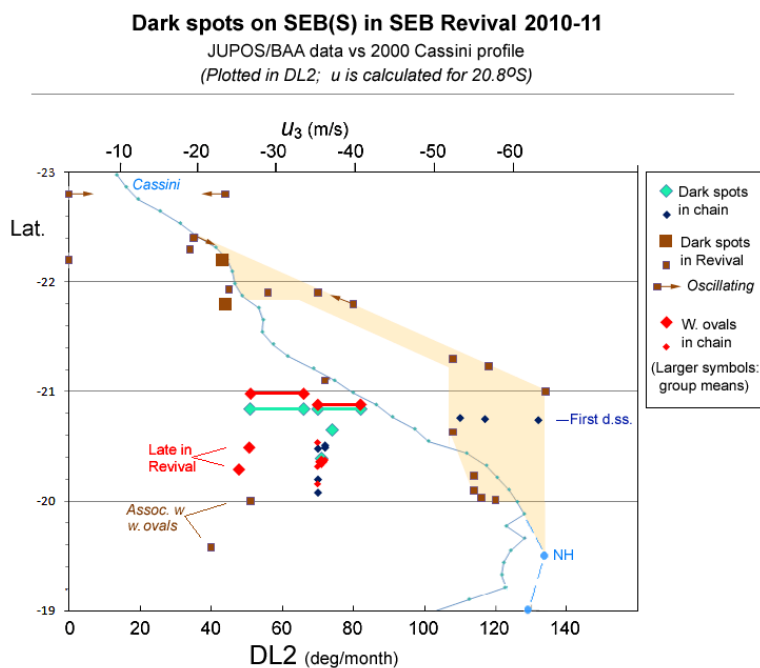
Fig.8: S. branch of SEB Revival, 2011 Feb.



Figs.7 & 8. Images of the southern branch, 2011 Jan.22-31 and 2011 Feb. As in Fig.6.



**Fig.9.** Southern branch of the SEB Revival: Chart of longitude (L2) vs time, for identified dark spots and for white ovals within SEB(S).



**Fig.10.** Southern branch of the SEB Revival: Chart of speed vs latitude, for identified dark spots and for white ovals within SEB(S). Blue line is the zonal wind profile from Cassini in 2000 [Porco et al., 2003]. Note that the dark spots in the Revival are systematically to the right of the line from 20.5-21.5 deg.S, whereas the bright ovals and associated dark projections, both before and after the Revival, are systematically to the left of the line from 19.5-20.8 deg.S.