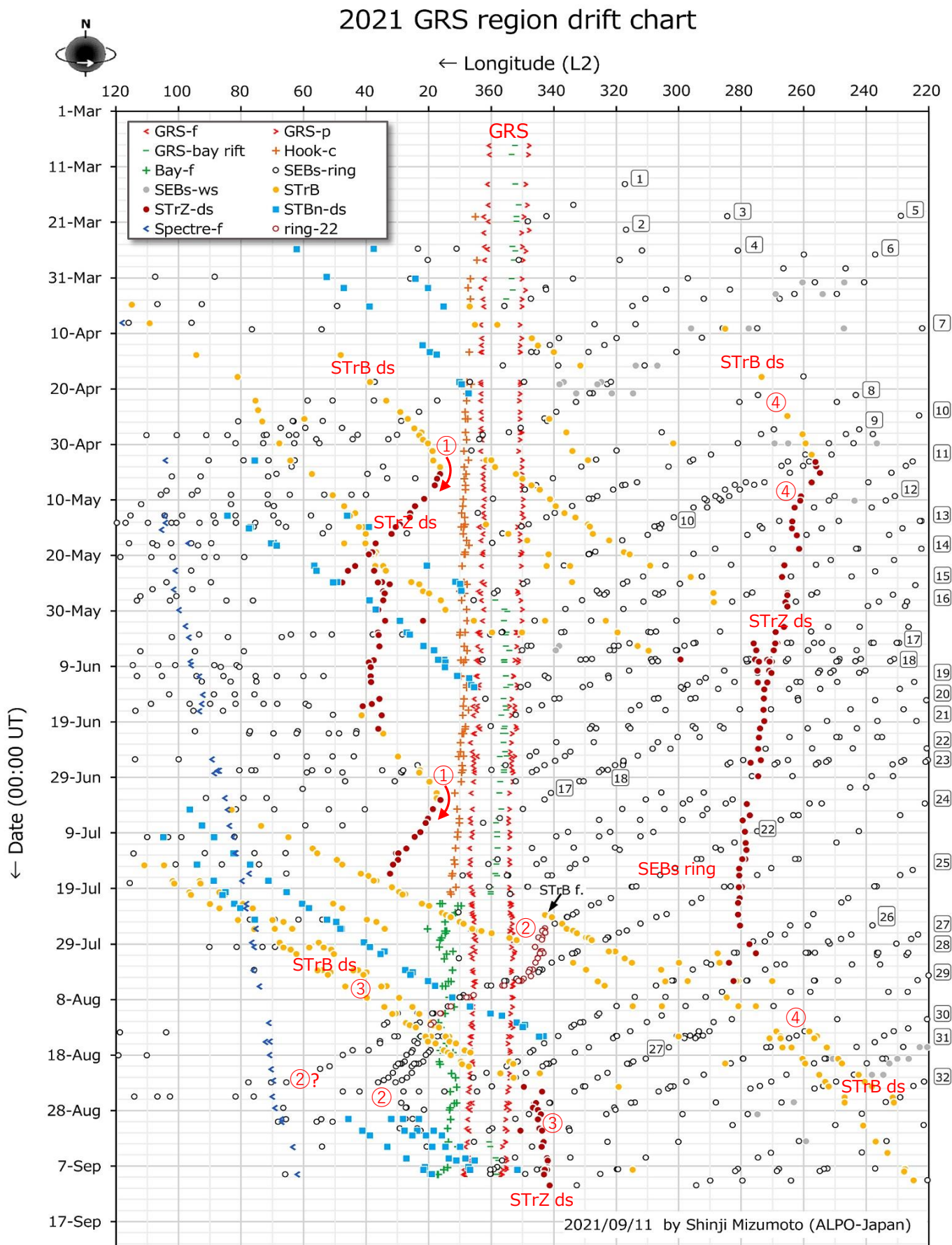
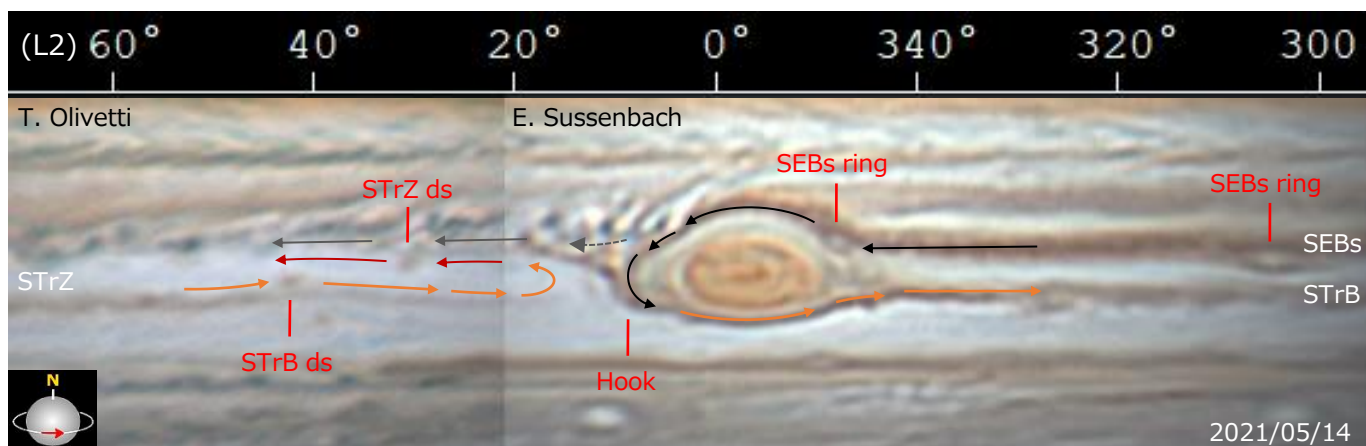


– 2021 Jupiter –

The dark spots around the GRS showing unusual movements



- The area like the "Circulating Current p.e." was formed on the GRS f. side. ¹⁾
 (near L2=15°: This disappeared with the disappearance of the "Hook" on Jul. 23.)
- ① In early May and early Jul., the dark spots prograded the northern edge of the STrB (L2: - 1.6°/day) shifted north (near L2=15°).
 → After that, the dark spots retrograded on the STrZn (1.6°/day).



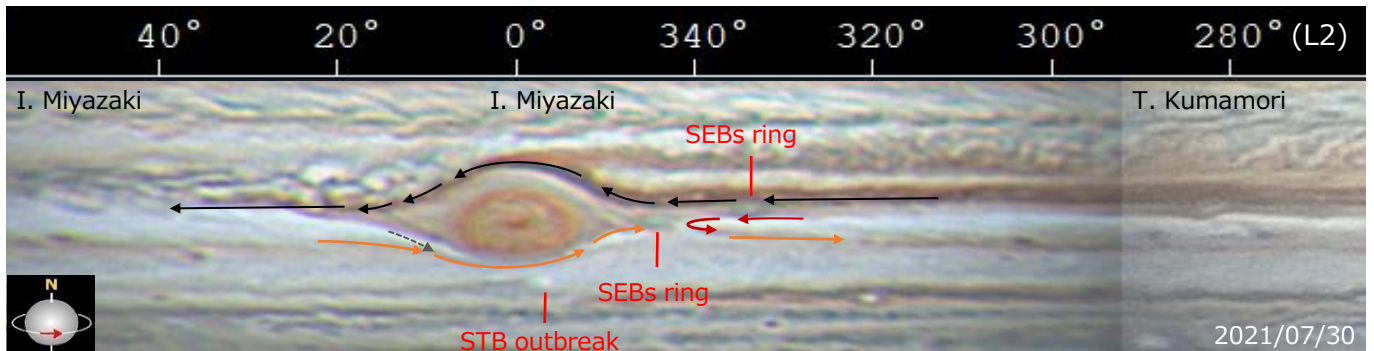
- The area like the "Circulating Current f.e." was formed on the GRS p. side (near L2=340°). It seems that it existed from mid-Jul. to mid-Aug..^{2) 3)}
For the formation process, refer to Jul. 16-30 maps.
It seems that the disappearance of "Hook" and the accompanying fading of the STrB are related to the formation of this area.

② In late Jul., the retrograding SEBs ring (L2: 3.7°/day) shifted south just before the GRS-bay and slowed down (0.9°/day).

→ In early Aug., the following ring (4.3°/day) caught up and the two rings entered the GRS-bay one after another (3.7°/day).

→ In mid-Aug., after passing the GRS-bay, they slowed down again (0.9°/day).

→ After that, the two rings seemed to disappear while gradually accelerating.

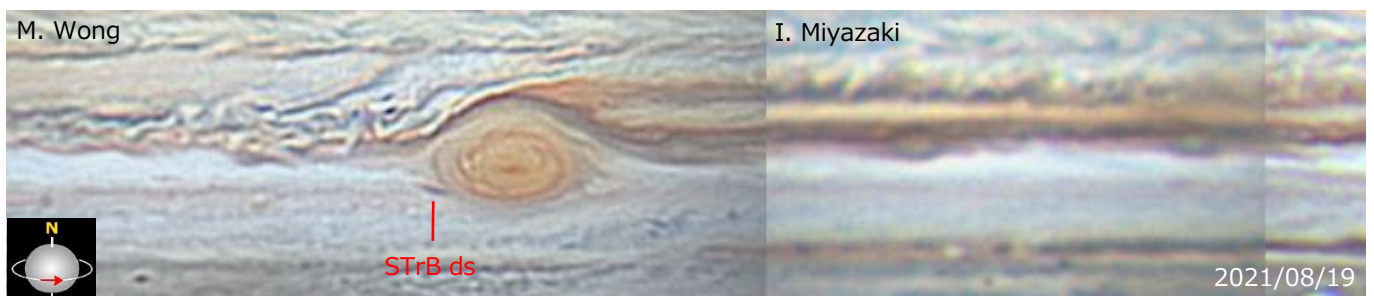


● Others

③ In mid-Aug., the two STrB dark spots (L2: -2.8°/day) passed south of the GRS (in a stretched shape).^{2) 3)}

→ In late Aug., the dark spots after passing shifted north and moved to the STrZ.

→ Slowed down (-0.5°/day).



④ The floating dark spot on STrB-STrZ^{2) 3)}

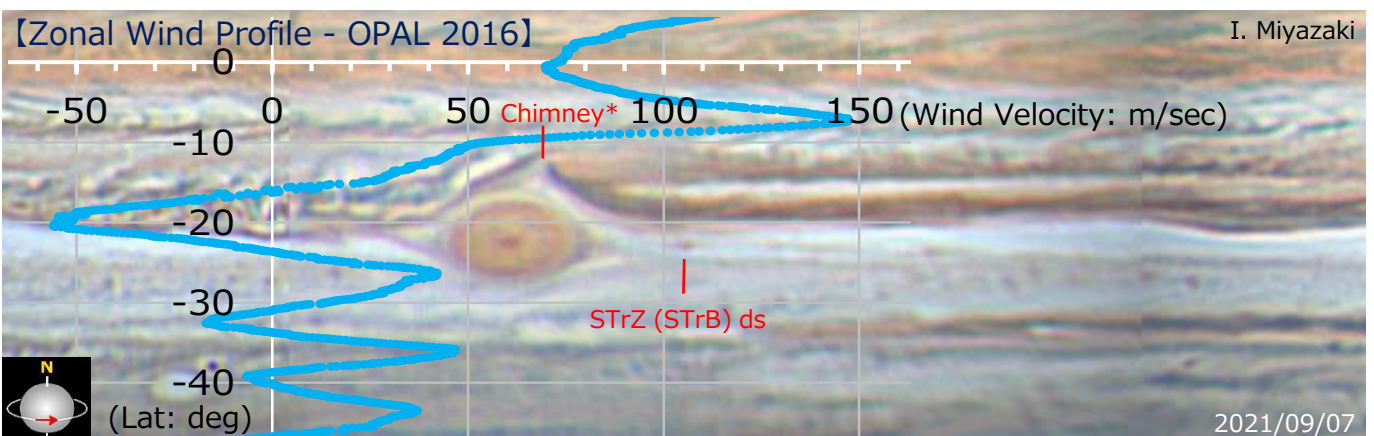
STrB d.s. (shifted north) → STrZ d.s. (shifted south) → STrB d.s.

Latitude shift was repeated due to approach to the SEBs rings.

→ Drift rate changed each time.

● Summary

- Two areas like the "Circulating Current (one side)" were formed.
→ The latitude of the dark spots passing near them has changed.
- Latitude of the dark spots changed due to the approach with other dark spots and the GRS.
→ The drift rate changed significantly due to slight latitude change.
→ The above follows the Zonal Wind Profile.



*Chimney: GRS-bay rift

● References (Links)

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<http://alpo-j.sakura.ne.jp/kk21/Current%20like%20Circulating%20Current-E.pdf>
- 2) Mizumoto S, Jupiter in 2021 GRS-SEBs Animation (ALPO-Japan)
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http://alpo-j.sakura.ne.jp/Latest/j_Cylindrical_Maps/j21GRSmapsL2n.htm