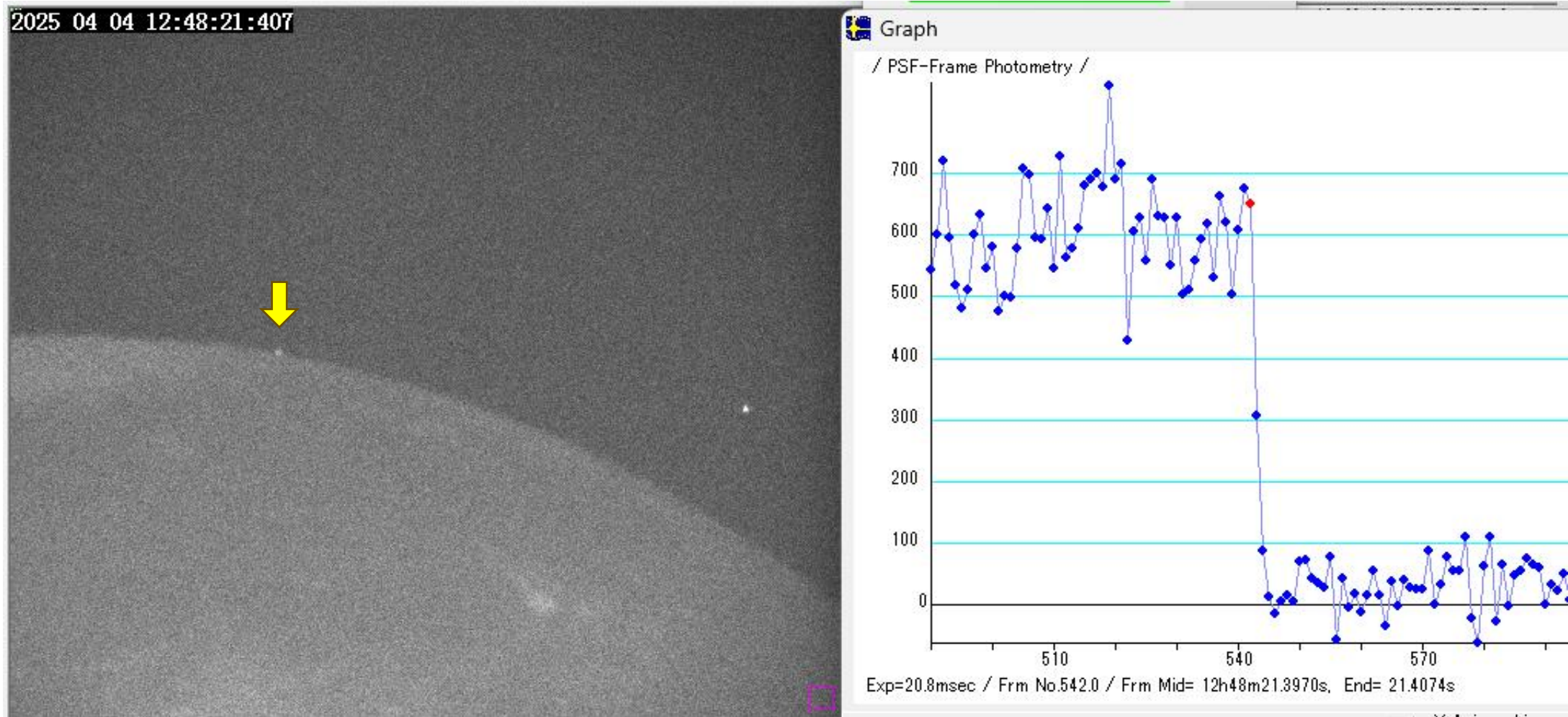


Statistics of observation reports on Lunar occultation & Grazing occultation



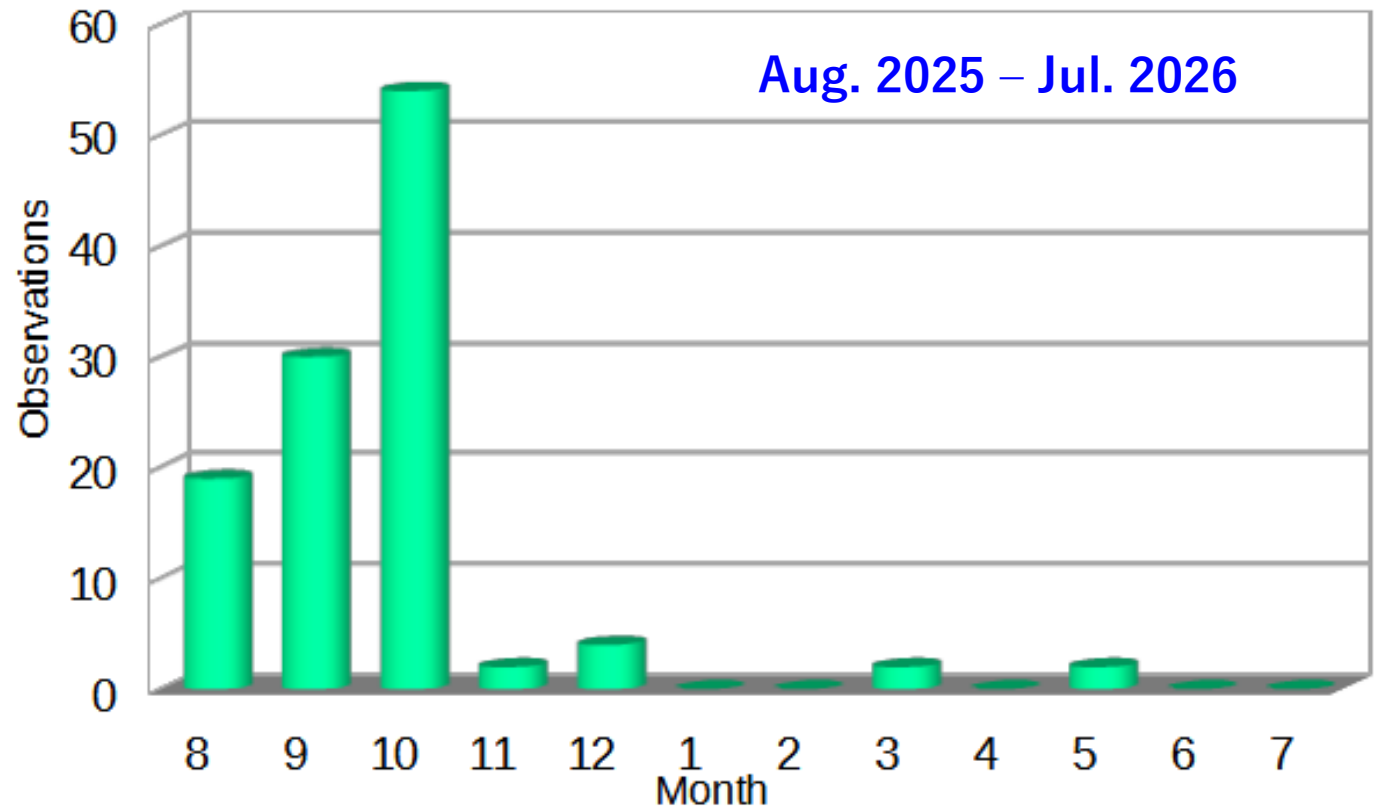
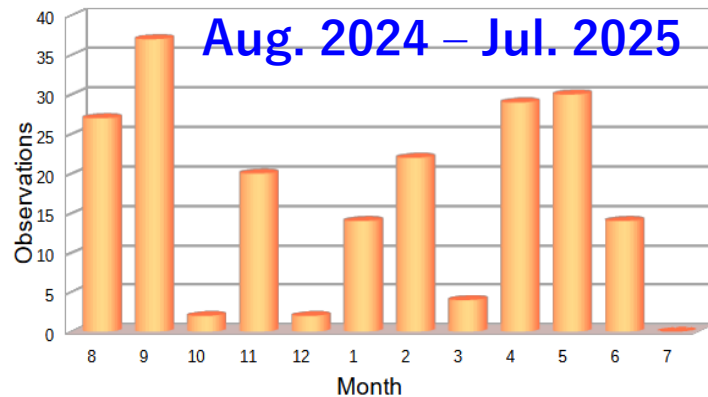
Department of Lunar occultation, IOTA/EA

月による星食と接食の観測のまとめ IOTA/EA 月による星食部局

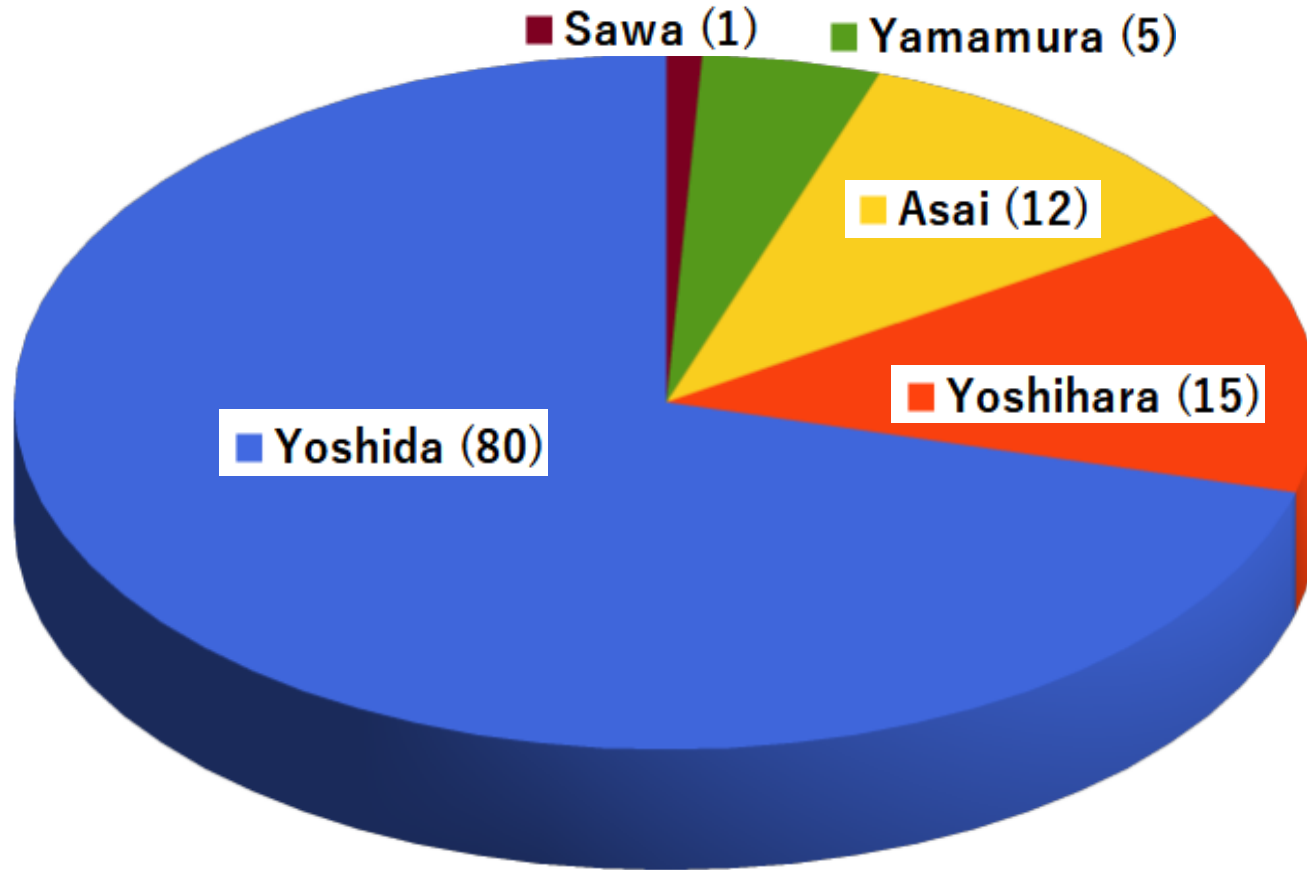
Lunar occultaion: 113 phenomena have been reported.

The number of reported phenomena has dropped to about half of what it was last year. This is because some persons who had previously reported many observations were unable to do so this time due to personal circumstances.

Number of reports by month



Contribution (number of phenomena)



Five observers have reported lunar occultation observation during this period.

- All reports are from Japan.
- It is necessary to appeal the significance of lunar occultation more widely.

Grazing occultation reports

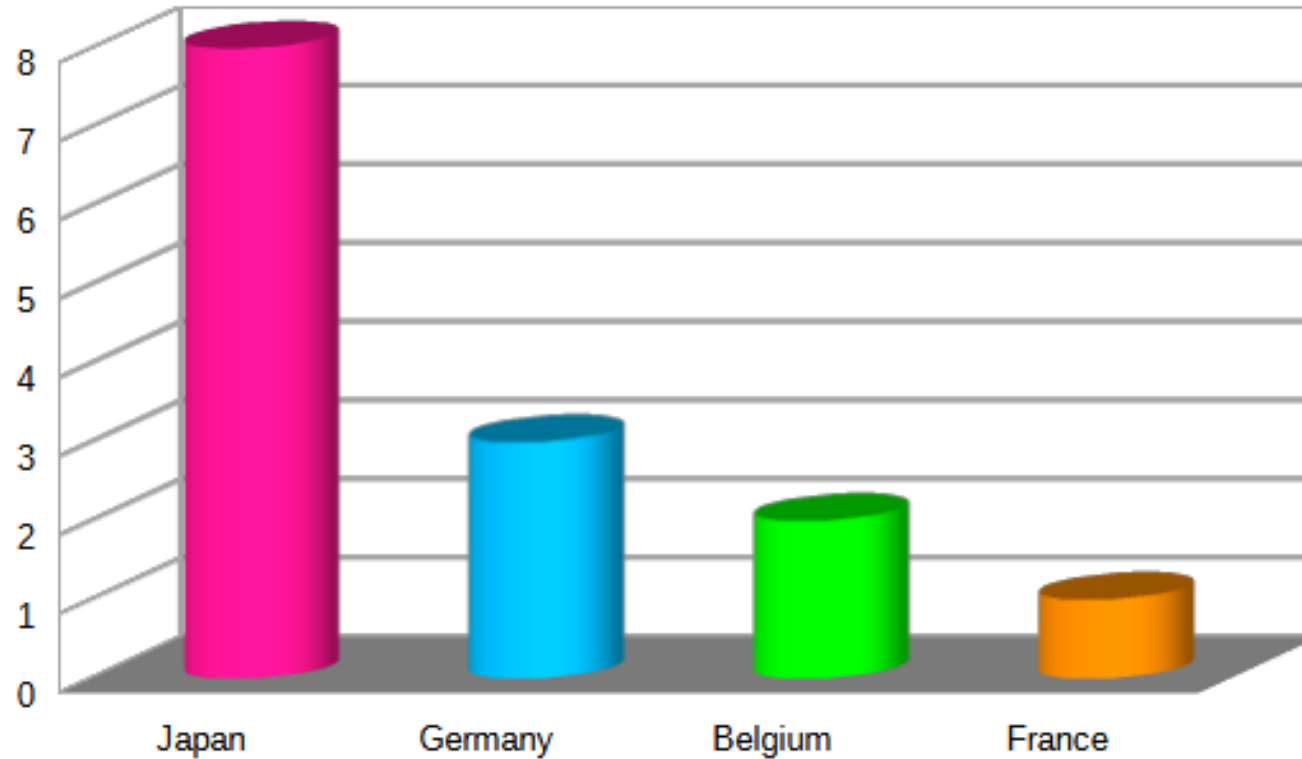
Star	Date	Region	Observer	Phenomena	Correction for reduction	RUWE
ZC 1487	Mar. 29, 2026	Russia	V. Belousov (NE) V. Belousov (SW)	7D6R 9D7R	+0.07	
SAO 79521	Mar. 27, 2026	Germany	Sven Andersson H.J. Blashke Zielke / Scholz Konrad Guhl	13D11R 3D3R 5D5R 5D5R	+0.04	0.919
SAO 77818	Mar. 25, 2026	Japan	Mita Tsuda Ushiwatari	2D2R 10D10R 2D2R	+0.05	1.037
ZC 797	Mar. 24, 2026	Germany	E. Riedel	2D2R	+0.07	2.626
ZC 470	Mar. 22, 2026	Belgium	Michel Deconinck	3D3R		0.987
SAO 109282	Jan. 24, 2026	Japan	Mita	3D3R	-0.05	0.976
ZC 166	Dec. 28, 2025	Germany	Uwe Selbmann Dietmar Buettner	1D1R 1D1R		1.043
ZC 105	Dec. 28, 2025	Japan	Kashiwagura Togashi	4D4R 4D4R	-0.04	4.283
SAO 188607	Oct. 1, 2025	Japan	Ishida	2D2R	-0.06	1.128
SAO 186009	Sep. 29, 2025	Japan	Ishida	7D7R	-0.06	1.176
ZC 3383	Sep. 7, 2025	Japan	Mita Ushiwatari	6D5R 2D1R	-0.06	1.263
SAO 78191	Aug. 19, 2025	Belgium	M. Decoinc Y. Thirionet J. Bourgeois	5D5R 3D4R 2D2R	-0.03	0.993
ZC 543	Aug. 16, 2025	Japan	Ishida	4D4R	-0.06	0.789
ZC 574	Aug. 16, 2025	Japan	Ishida	4D4R	-0.06	0.970
SAO 75715	Aug. 15, 2025	France	J. Bourgeois	1D1R	-0.01	12.378

In this period, 15 events on 26 site are observed in the world.

Among them, observations on East Asia region, 8 events on 12 sites, and 6 persons succeed observation of grazing occultation.

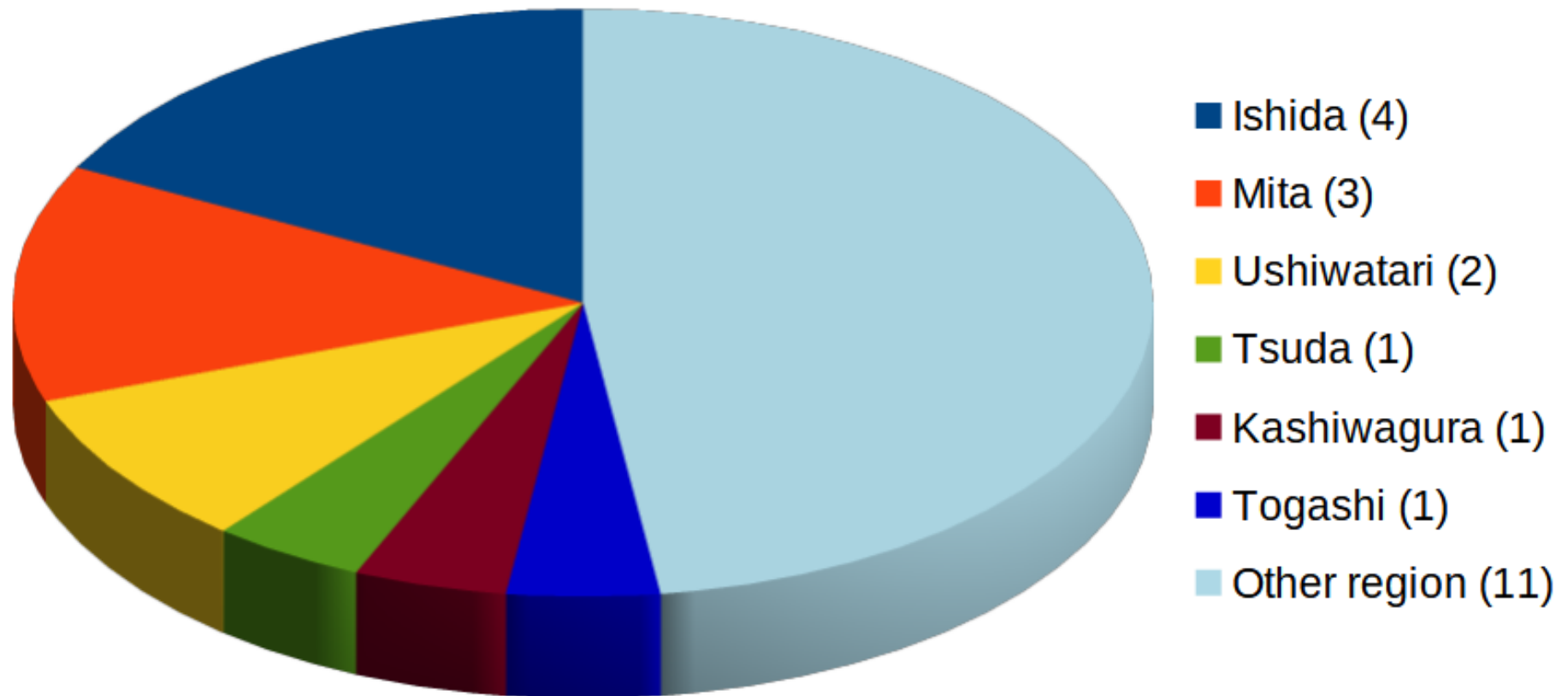
➤ It is necessary to publicize the significance of lunar/graze occultation observation.

Grazing occultation reports



- The number of phenomena observed in the EA region accounts for 57% of the global total.

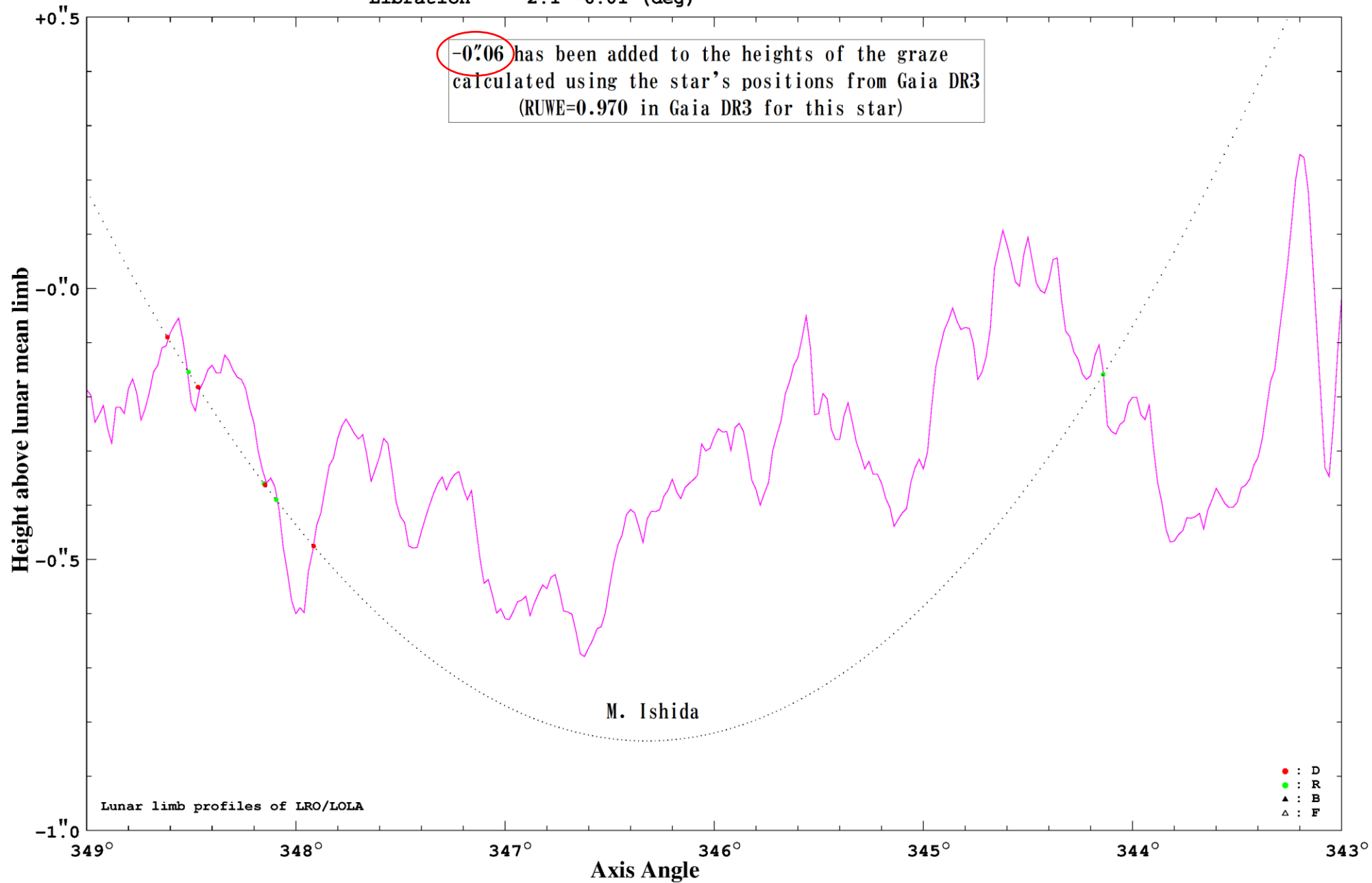
Contribution for Grazing occultation observation



Graze of ZC 574 on 20250816

Basis = 99G

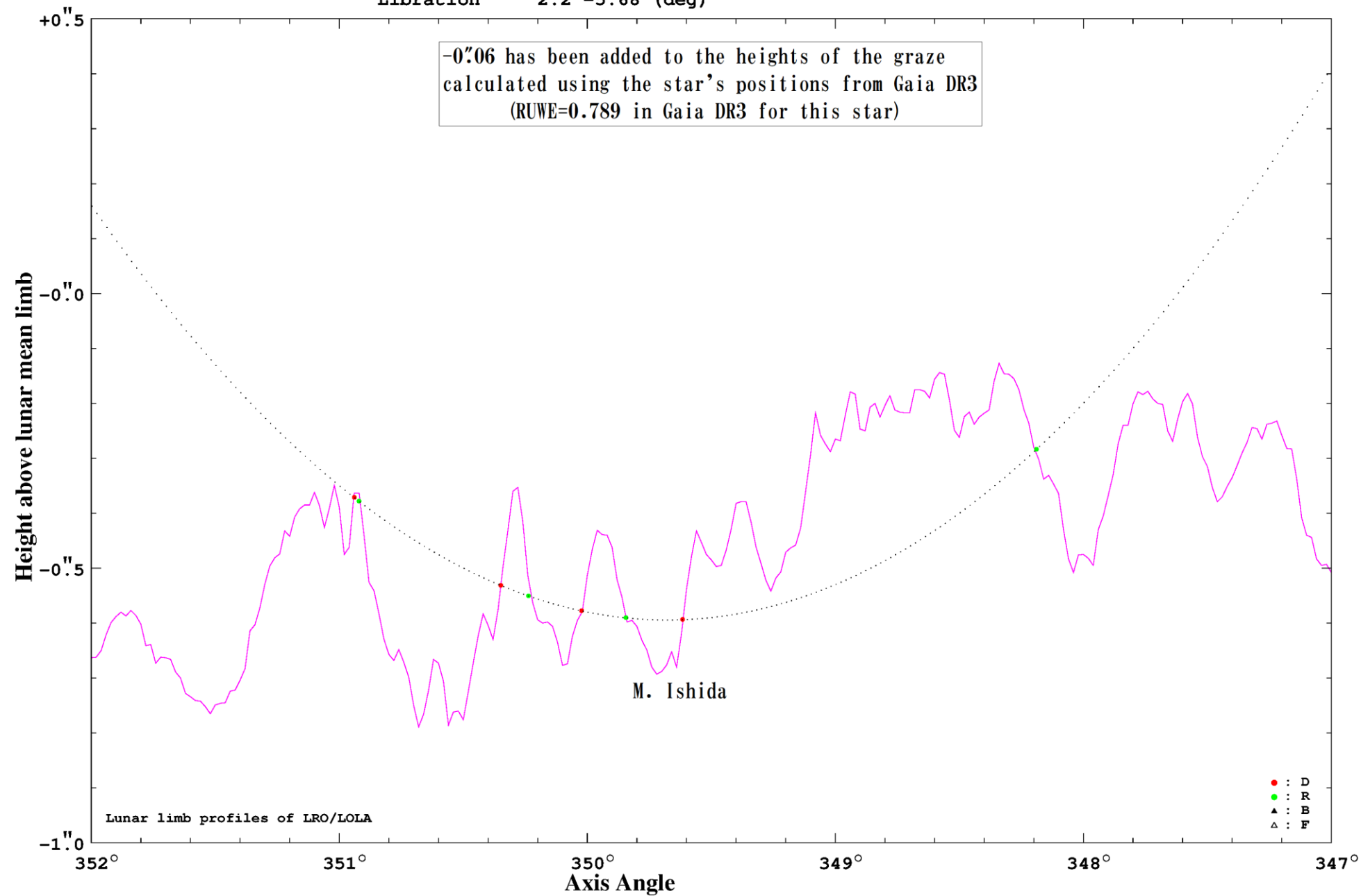
Libration 2.1 -6.01 (deg)



Graze of ZC 543 on 20250816

Basis = 99G

Libration 2.2 -5.68 (deg)

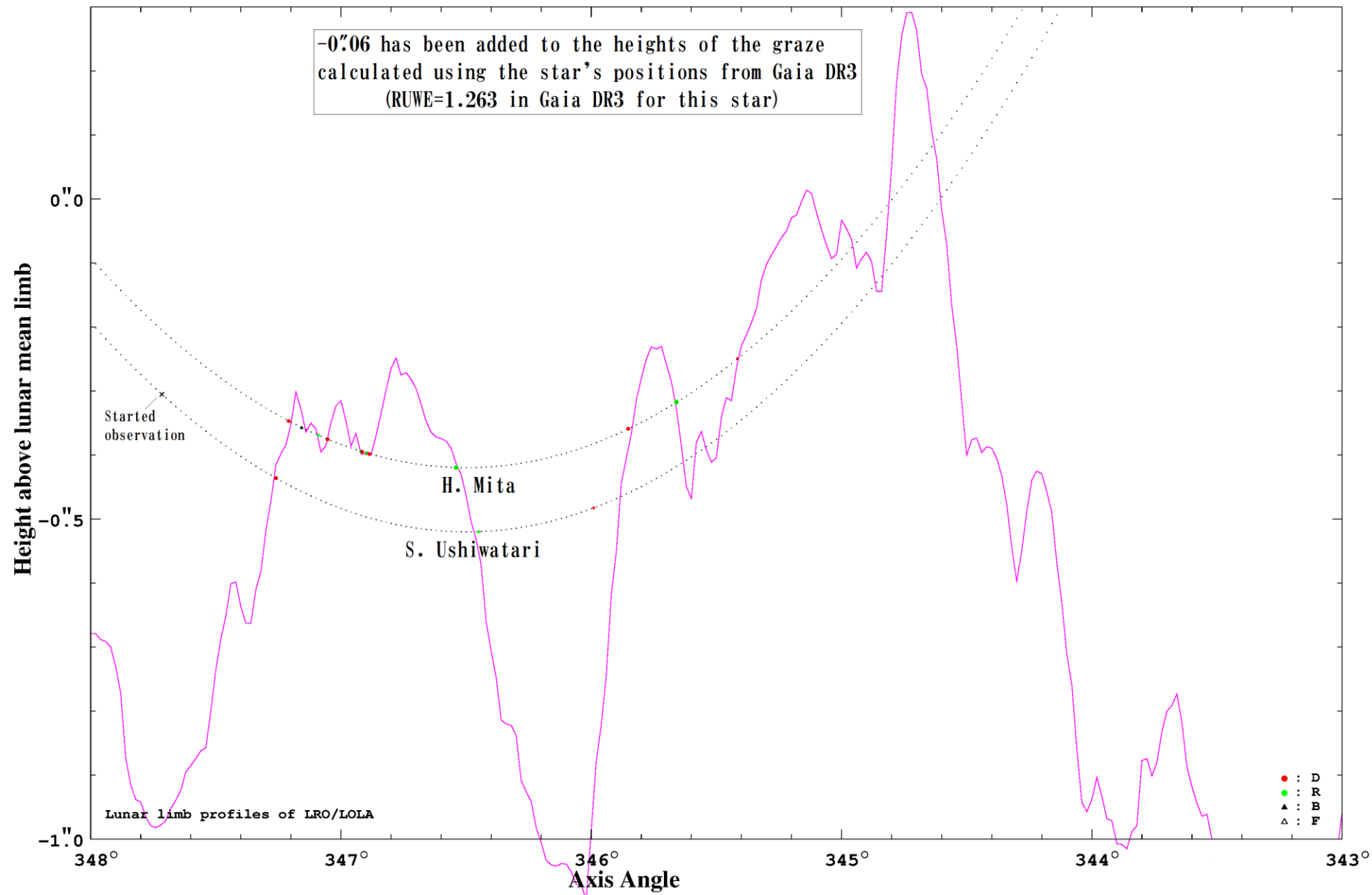


Graze of ZC 3383 on 20250907

Basis = 99G

* Other event by SU

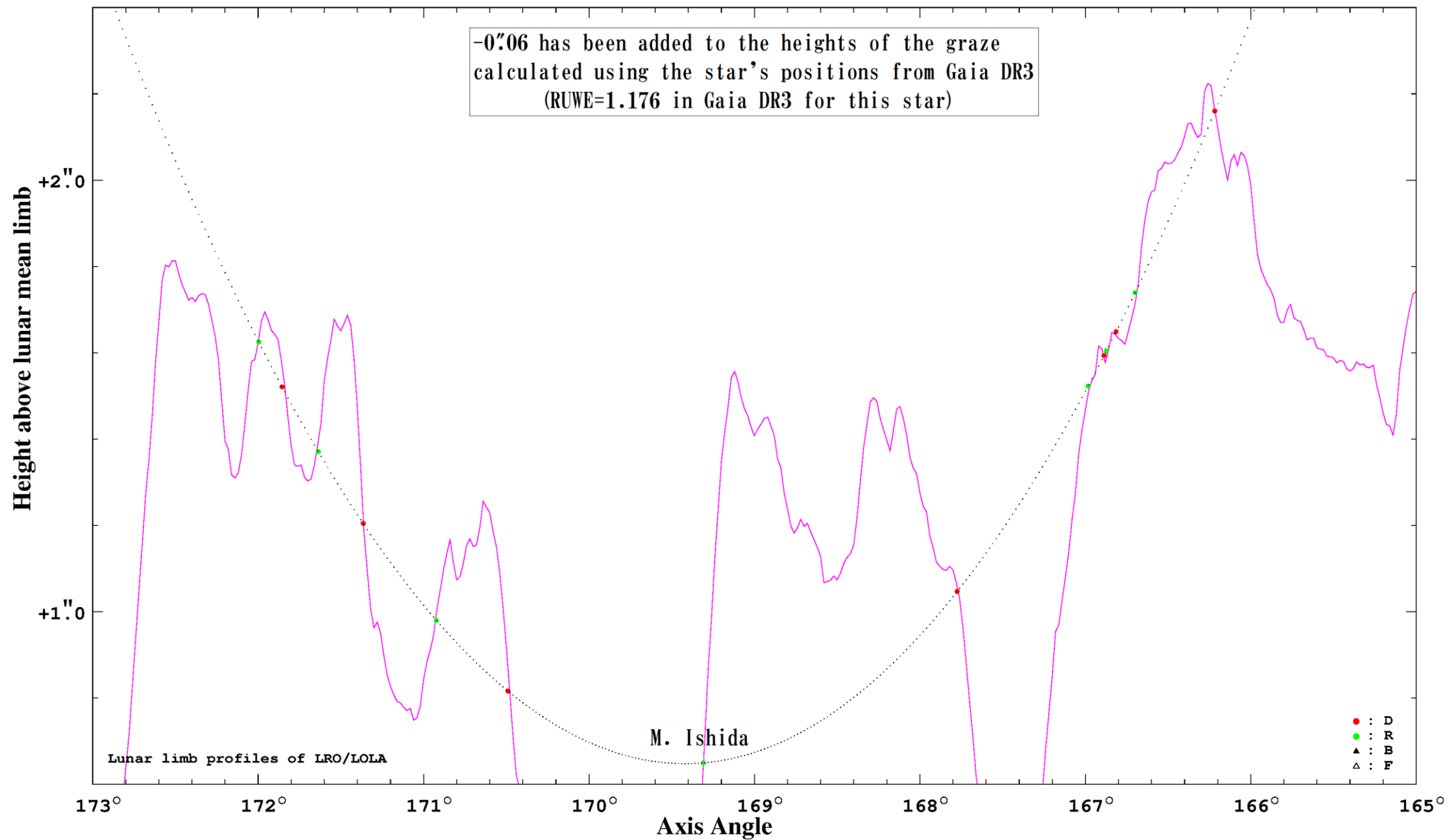
Libration -4.9 0.82 (deg)



Graze of S 186009 on 20250929

Basis = 99G

Libration -5.2 7.46 (deg)

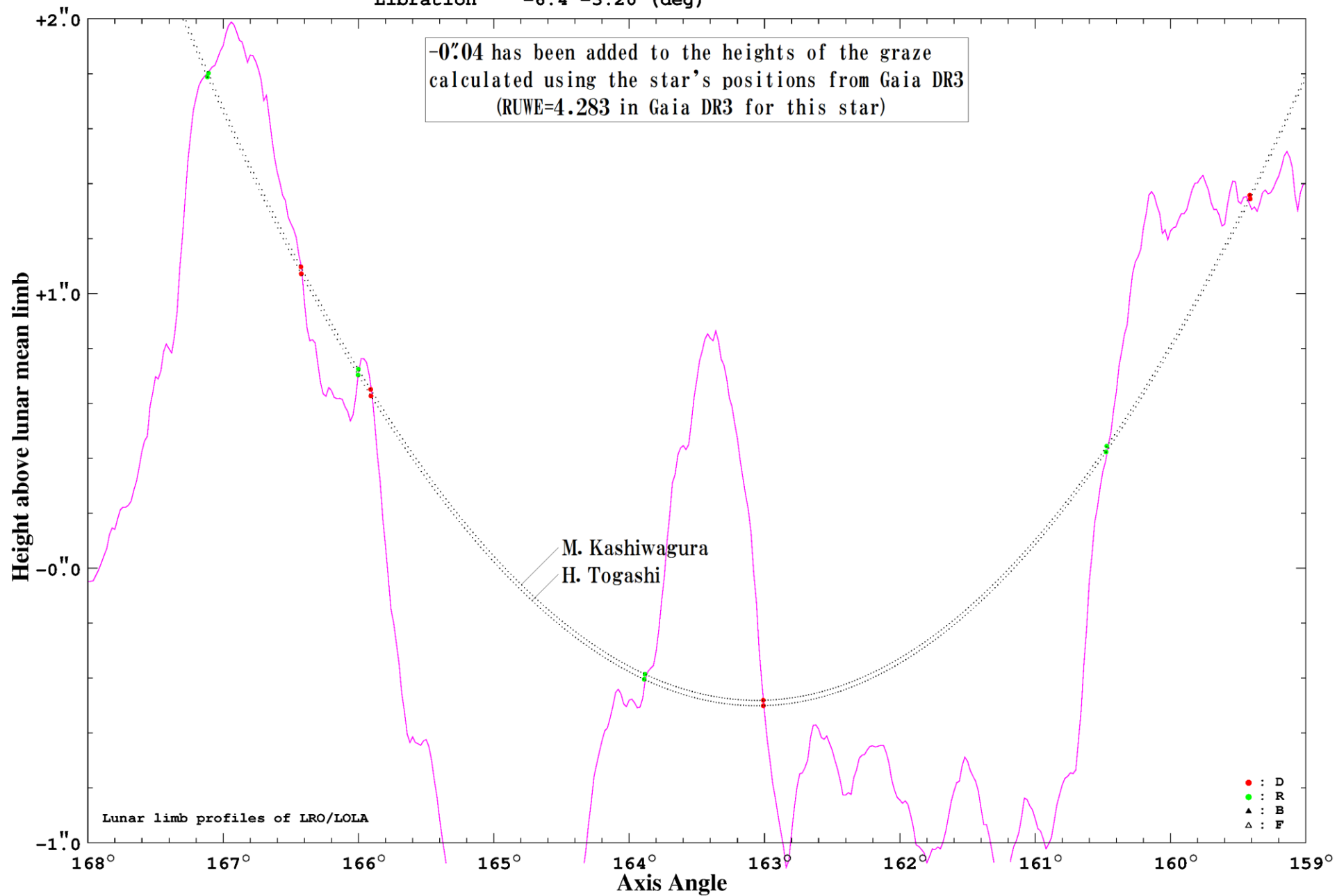




Graze of ZC 105 on 20251228

Basis = 99G

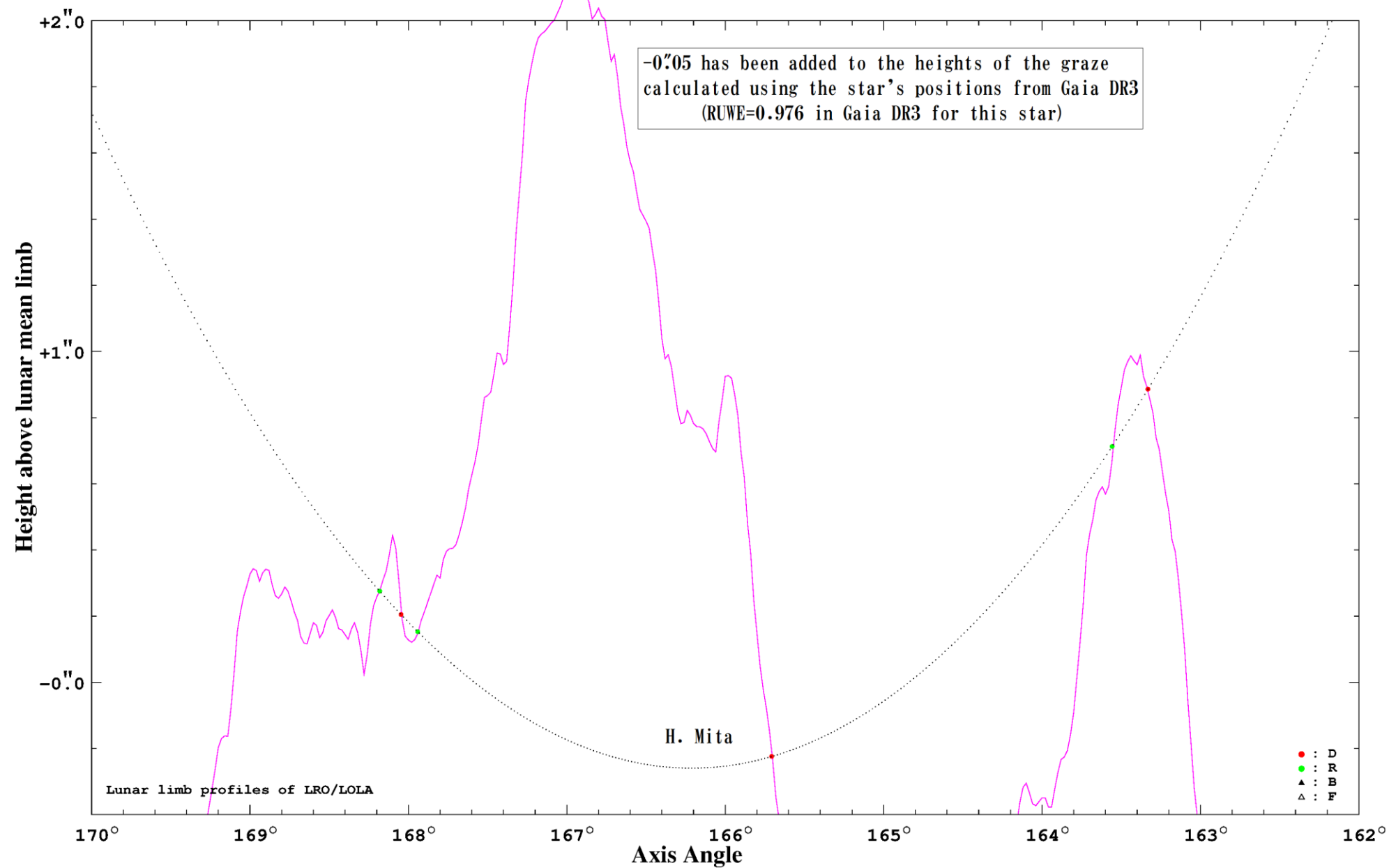
Libration -6.4 -3.20 (deg)



Graze of S 109282 on 20260124

Basis = 99G

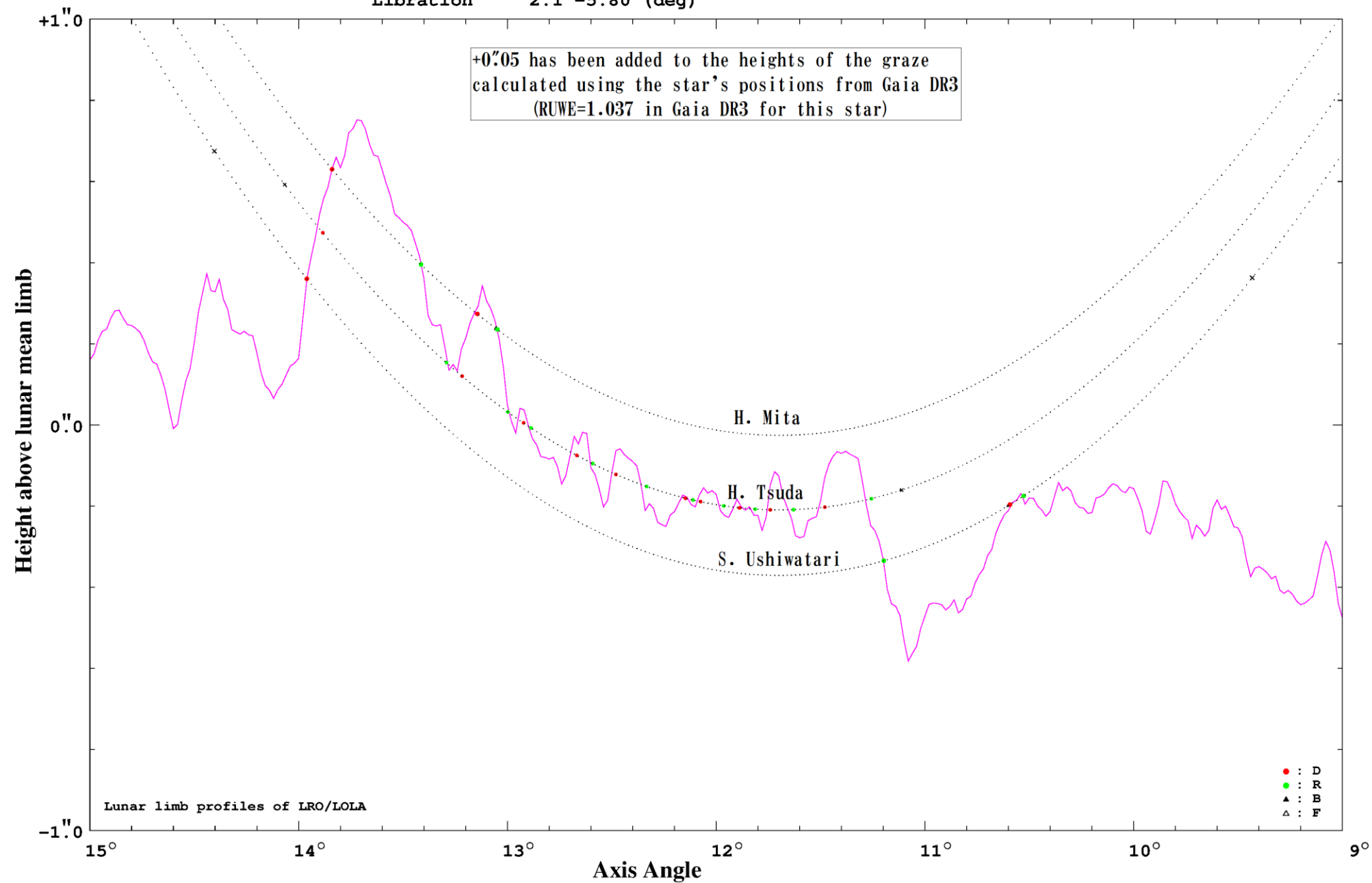
Libration -5.6 -3.06 (deg)



Graze of S 77818 on 20260325

Basis = 99G

Libration 2.1 -5.80 (deg)



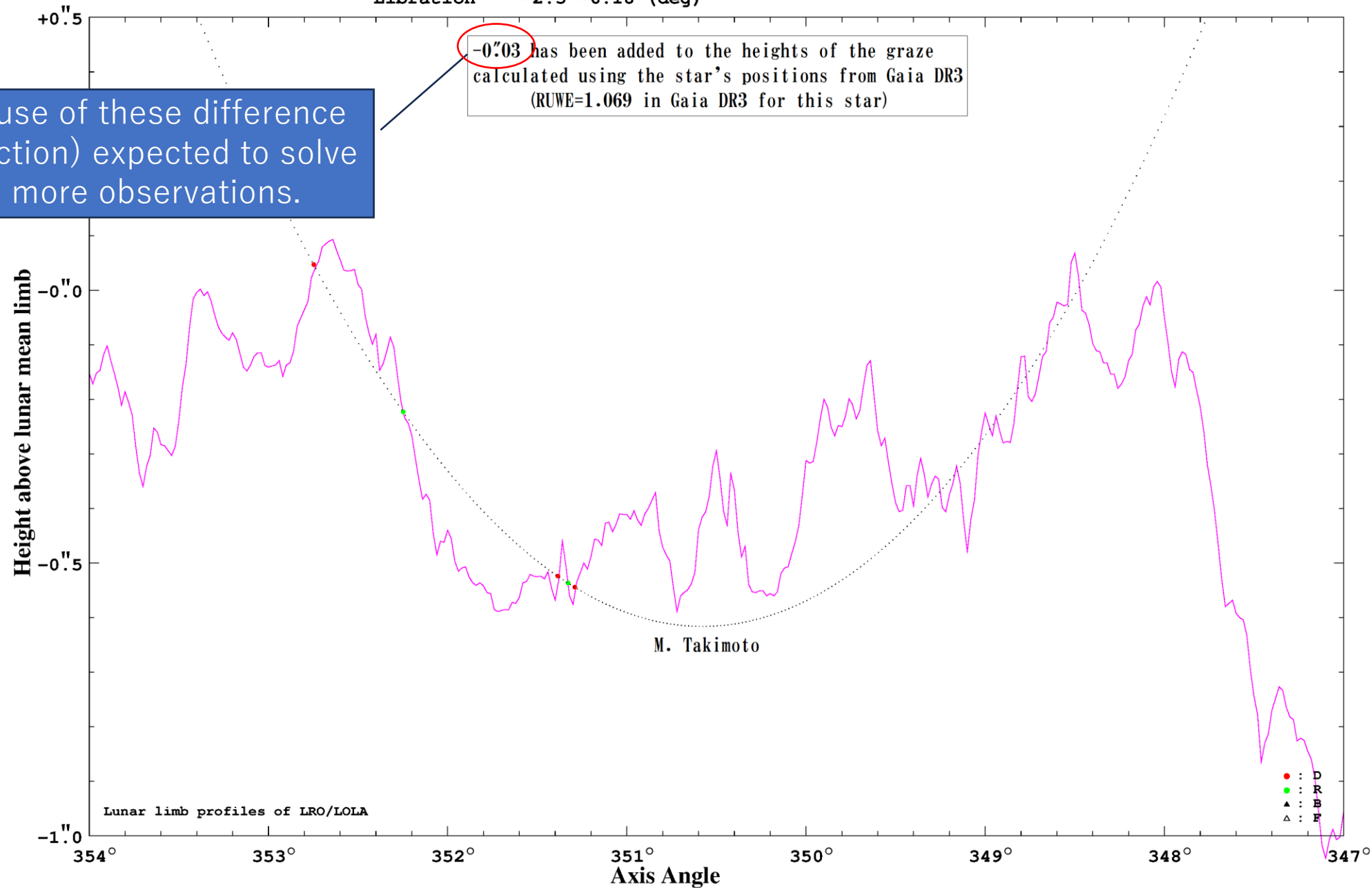
Graze of S 76530 on 20260807

Basis = 99G

Libration -2.5 -6.18 (deg)

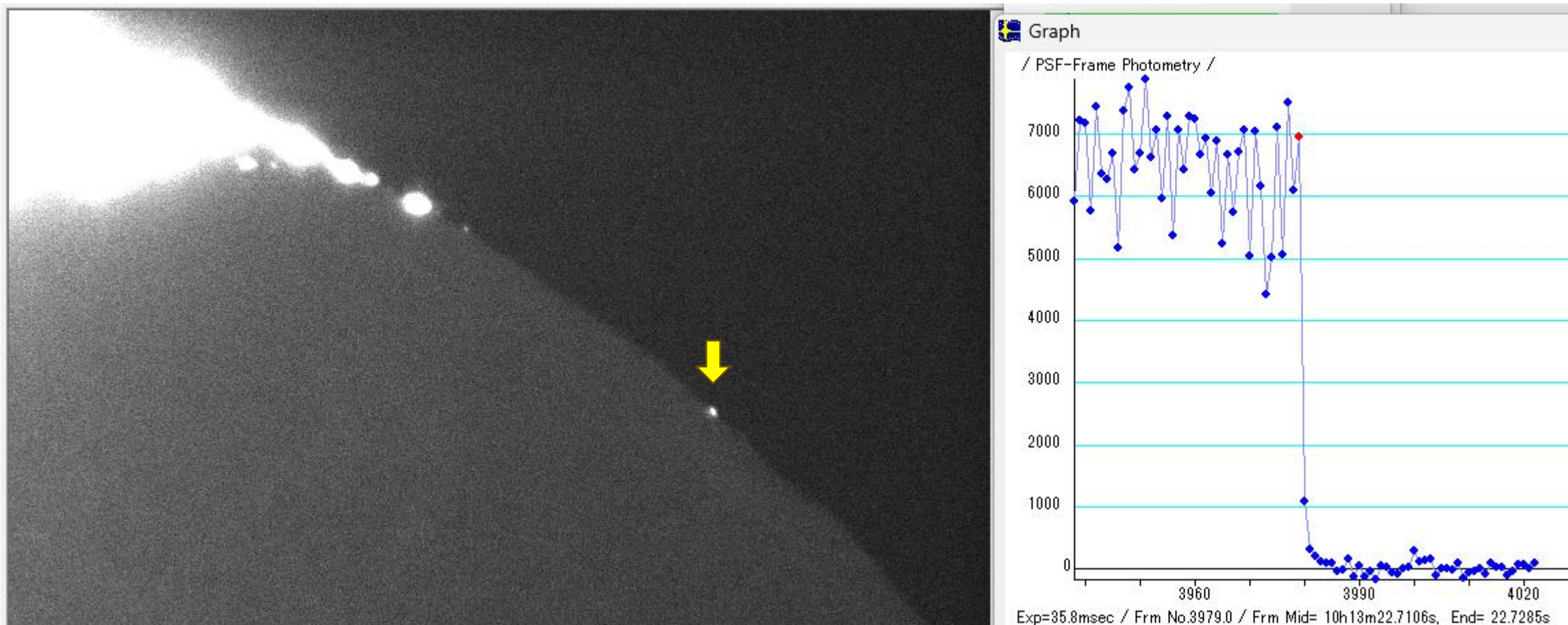
-0".03 has been added to the heights of the graze
calculated using the star's positions from Gaia DR3
(RUWE=1.069 in Gaia DR3 for this star)

The cause of these difference
(=correction) expected to solve
with more observations.



We look forward to your lunar occultation observation reports!

星食・接食の現象から価値のある観測ができます。
皆様のご参加をお待ちしております！



Feb. 03, 2025 Grazing occultation of XZ1815 (Observed by by Ono high school students)