THREE OUTBURSTS OF COMET 10P (TEMPEL)

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FIGURE CAPTIONS

Figure 1

Throughout the period leading up to 10P's perihelion, ZTF V-magnitude measurements show no significant variations attributable to outbursts.

Figures 2, 3, 4

The images acquired with the g, r, i, and z filters during each observing session were aligned on the optocenter and co-added to enhance information across a broad spectral range. The resulting images were subsequently processed with a Larson–Sekanina ($\alpha = 20°$) filter in order to examine the expansion of the inner-coma morphologies during episodes of intense activity (outbursts).

Figure 1

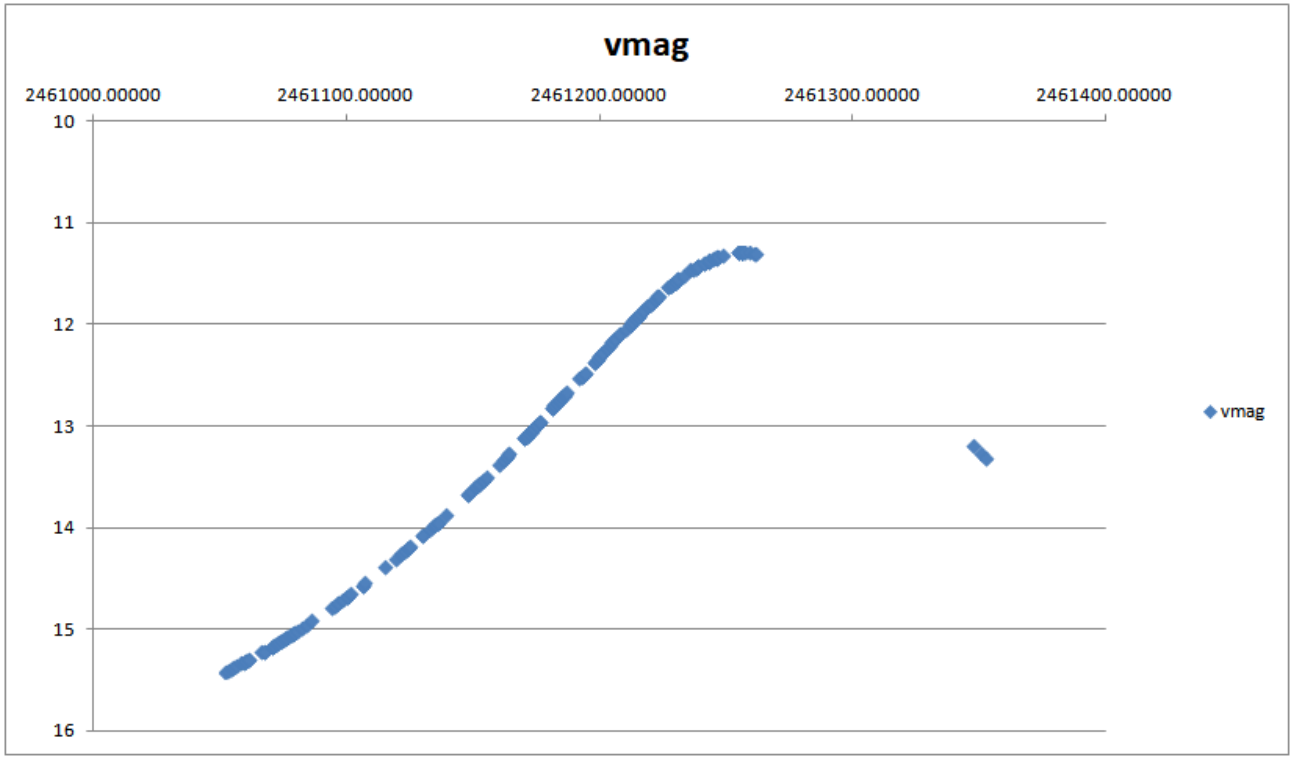

vmag
2461000.00000
2461100.00000
2461200.00000
2461300.00000
2461400.00000
10
11
12
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14
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16
vmag

Figure 2

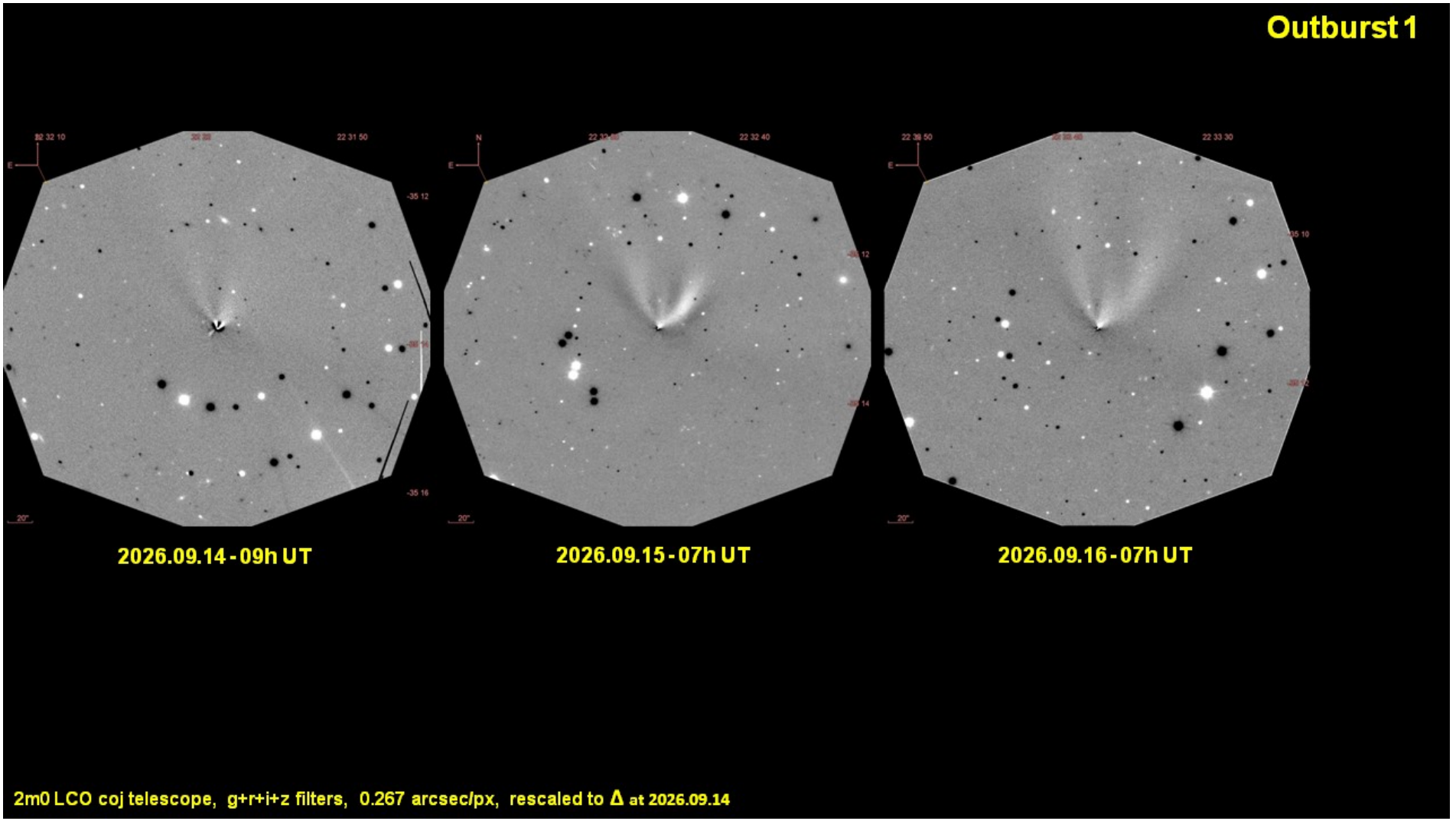

Outburst 1
2026.09.14 - 09h UT
2026.09.15 - 07h UT
2026.09.16 - 07h UT
2m0 LCO coj telescope, g+r+i+z filters, 0.267 arcsec/px, rescaled to Δ at 2026.09.14

Figure 3

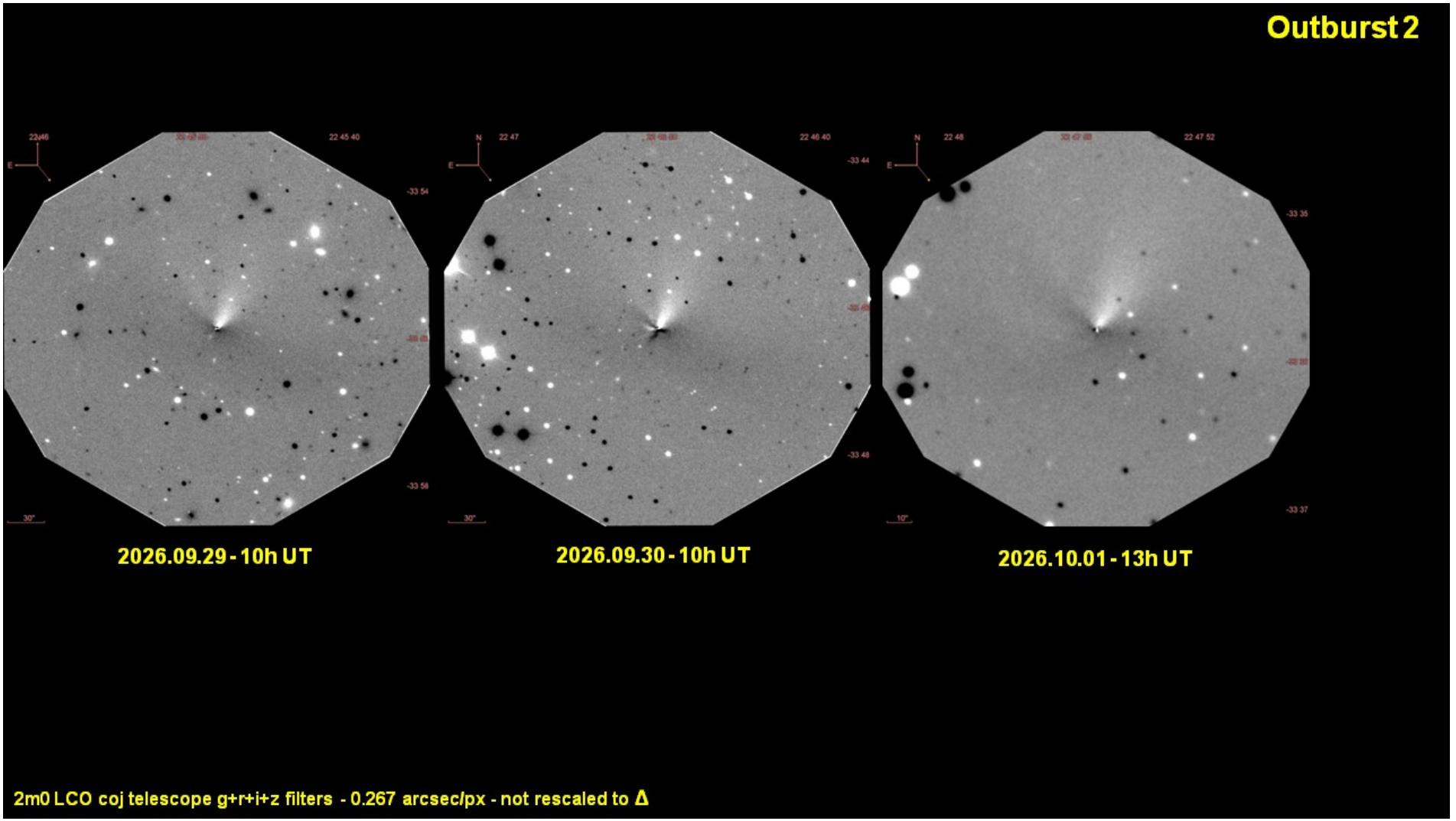
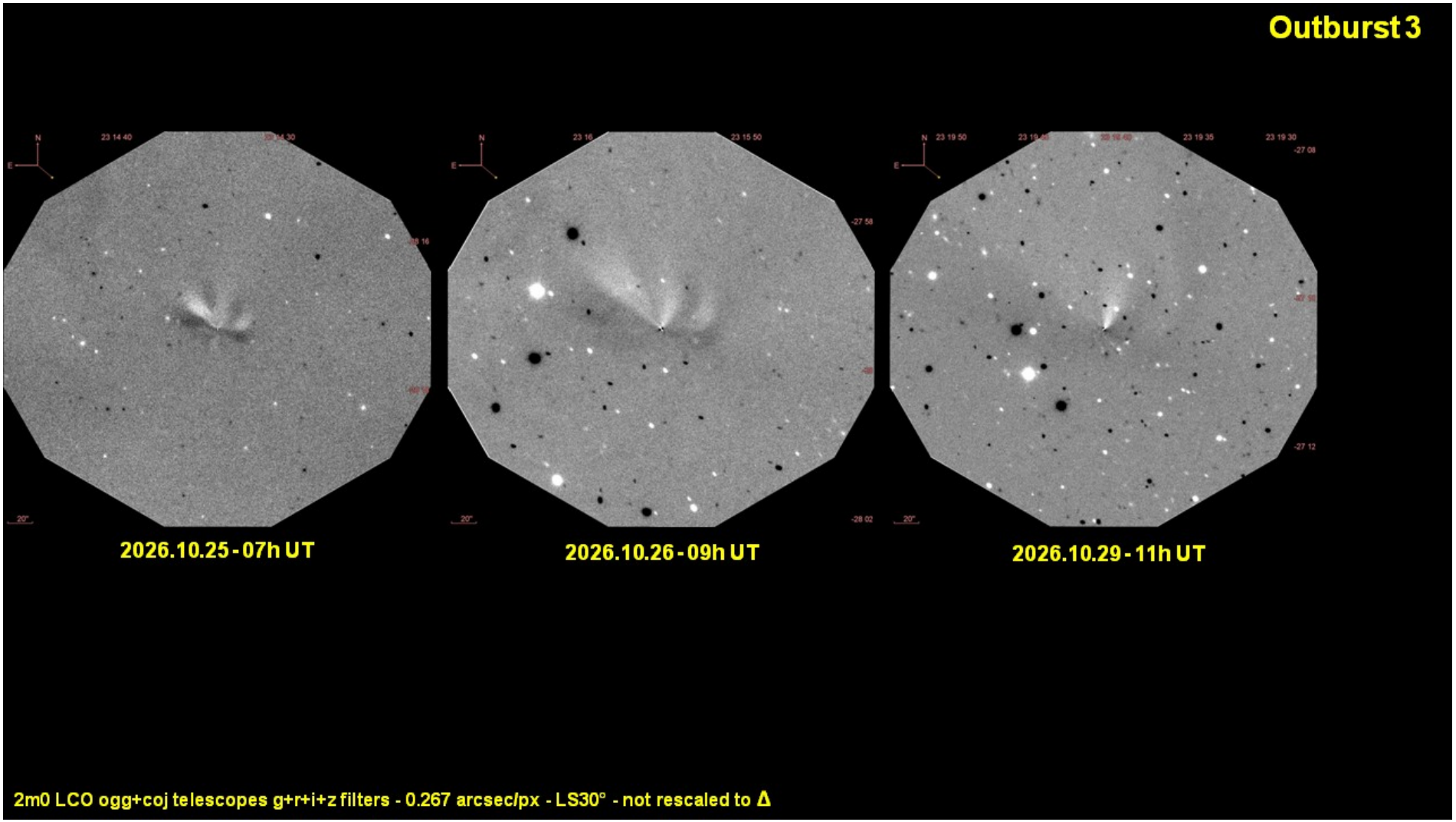

Outburst 2
2026.09.29 - 10h UT
2026.09.30 - 10h UT
2026.10.01 - 13h UT
2m0 LCO coj telescope g+r+i+z filters - 0.267 arcsec/px - not rescaled to Δ

Figure 4


Outburst 3
2026.10.25 - 07h UT
2026.10.26 - 09h UT
2026.10.29 - 11h UT
2m0 LCO ogg+coj telescopes g+r+i+z filters - 0.267 arcsec/px - LS30° - not rescaled to Δ