

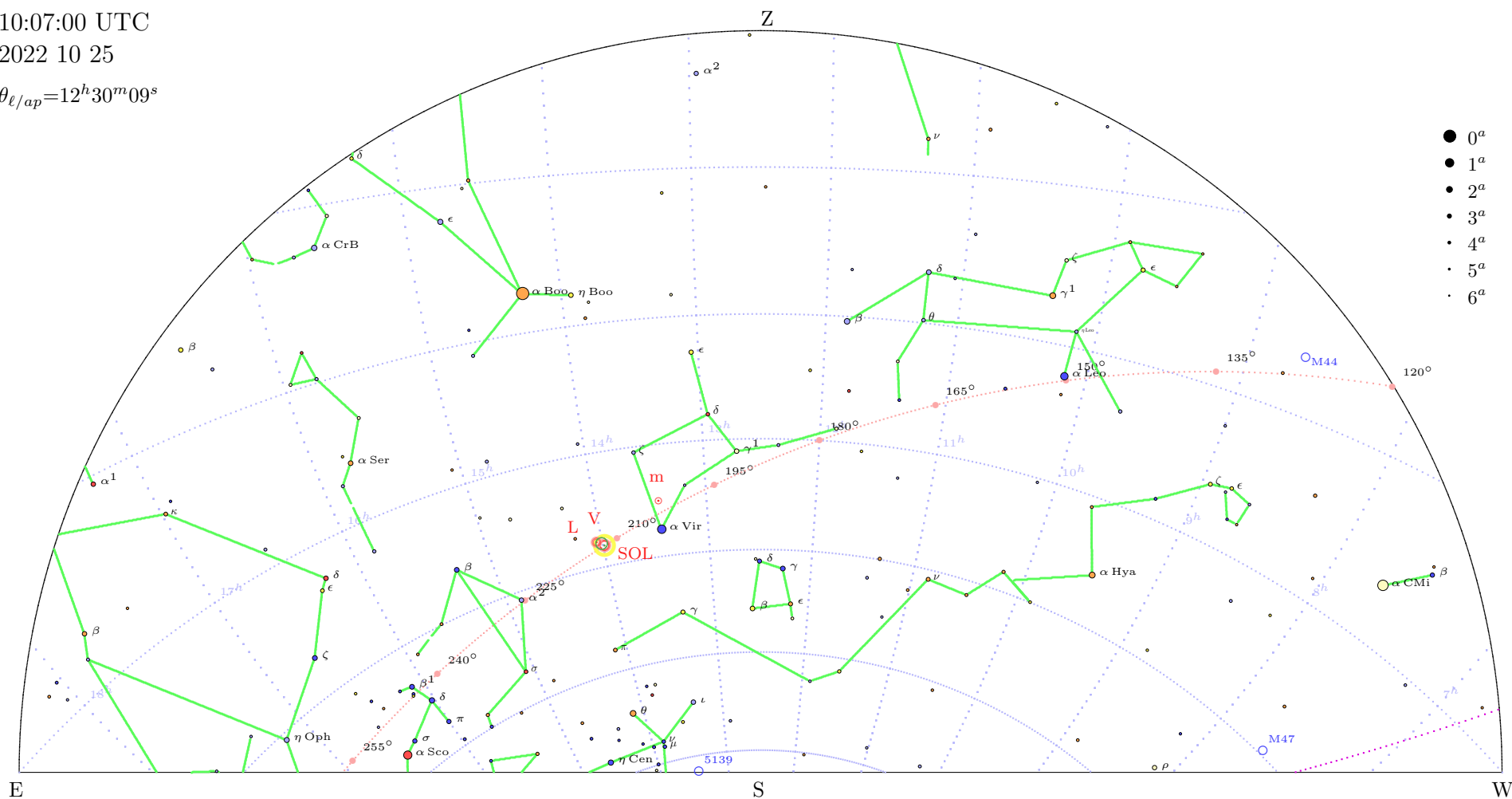
On estan el Sol i la Lluna durant l'eclipsi?

Pràcticament sobre l'eclíptica, a una longitud eclíptica d'uns 213° ,
en la constel·lació de La Verge.

10:07:00 UTC

2022 10 25

$\theta_{\ell/ap} = 12^h 30^m 09^s$



Terrassa

$\phi = 41.564^\circ \text{ N}$

$\lambda = 2.007^\circ \text{ E}$

$h = 290. \text{ m}$

$V_*^{Hip} \leq 4.5, n = 178$

$V_*/n \leq 3.5, n = 55$

$V_{dif} \leq 4.5, n = 3$

$h_{\odot} = 32.5^\circ$

$a_{\odot} = 334.0^\circ$

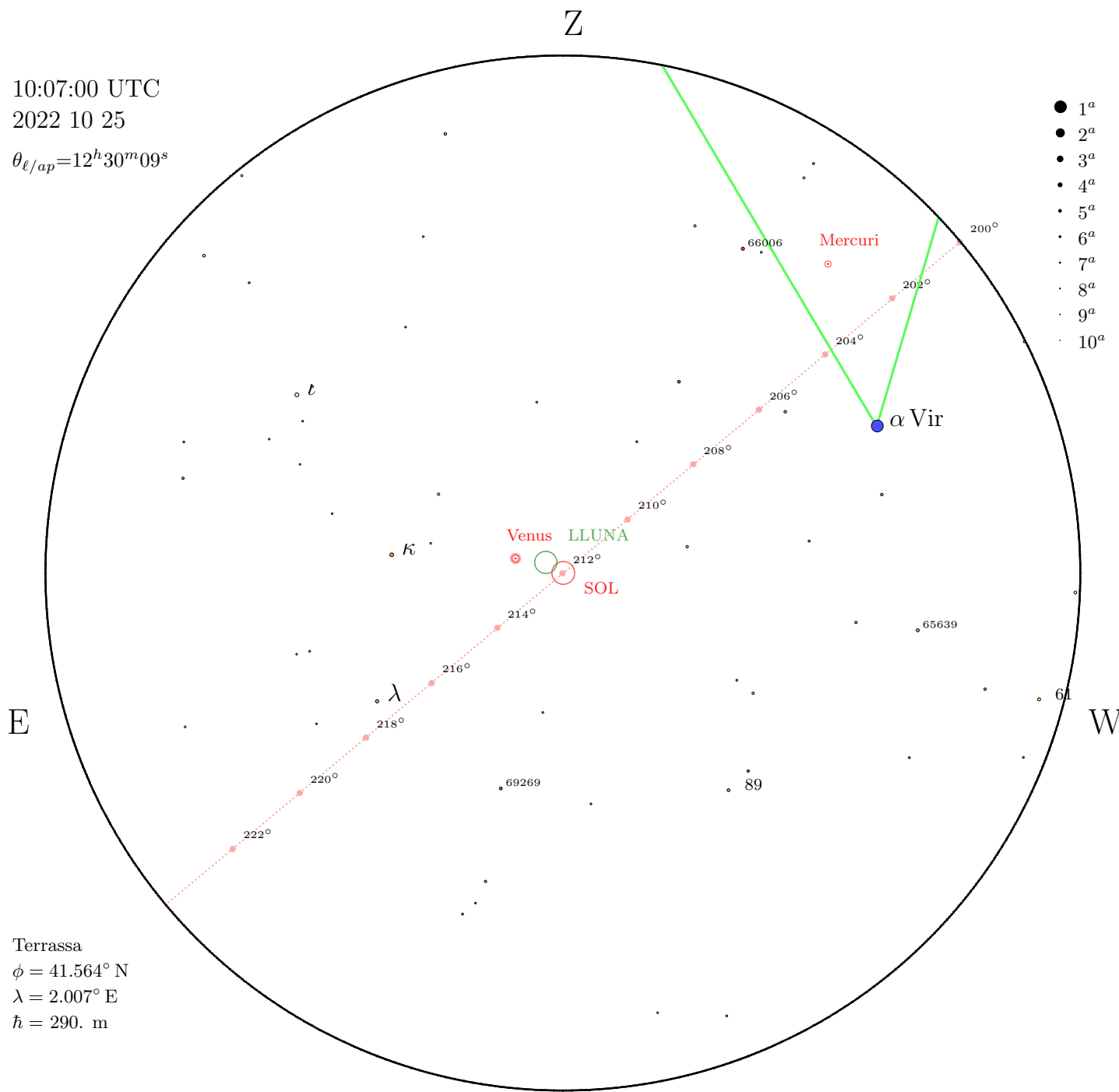
$h_C = 32.7^\circ / 2\% / \times 3.0$

$a_C = 333.5^\circ$

Vista Azimutal

MapEst81, \vec{V} (J. Calaf)

10:07:00 UTC
 2022 10 25
 $\theta_{\ell/ap} = 12^h 30^m 09^s$



- 1^a
- 2^a
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- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 6.5, n = 55$
 $V_{*/n} \leq 5.0, n = 9$
 $V_{dif} \leq 6.5, n = 0$

$h_{\odot} = 32.5^{\circ}$
 $a_{\odot} = 334.0^{\circ}$
 $h_C = 32.7^{\circ} / 2\%$
 $a_C = 333.5^{\circ}$

Vista Parcial

$D = 24.00^{\circ}$ ($Q_{para} = -19.642^{\circ}$)
 $h_0 = 32.489^{\circ}, a_0 = 333.948^{\circ}$
 $\dot{h}_0 = 4.9^{\circ/h}, Ch \dot{a}_0 = 15.2^{\circ/h}$
 $\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

Màxim Eclipsi: 0.1

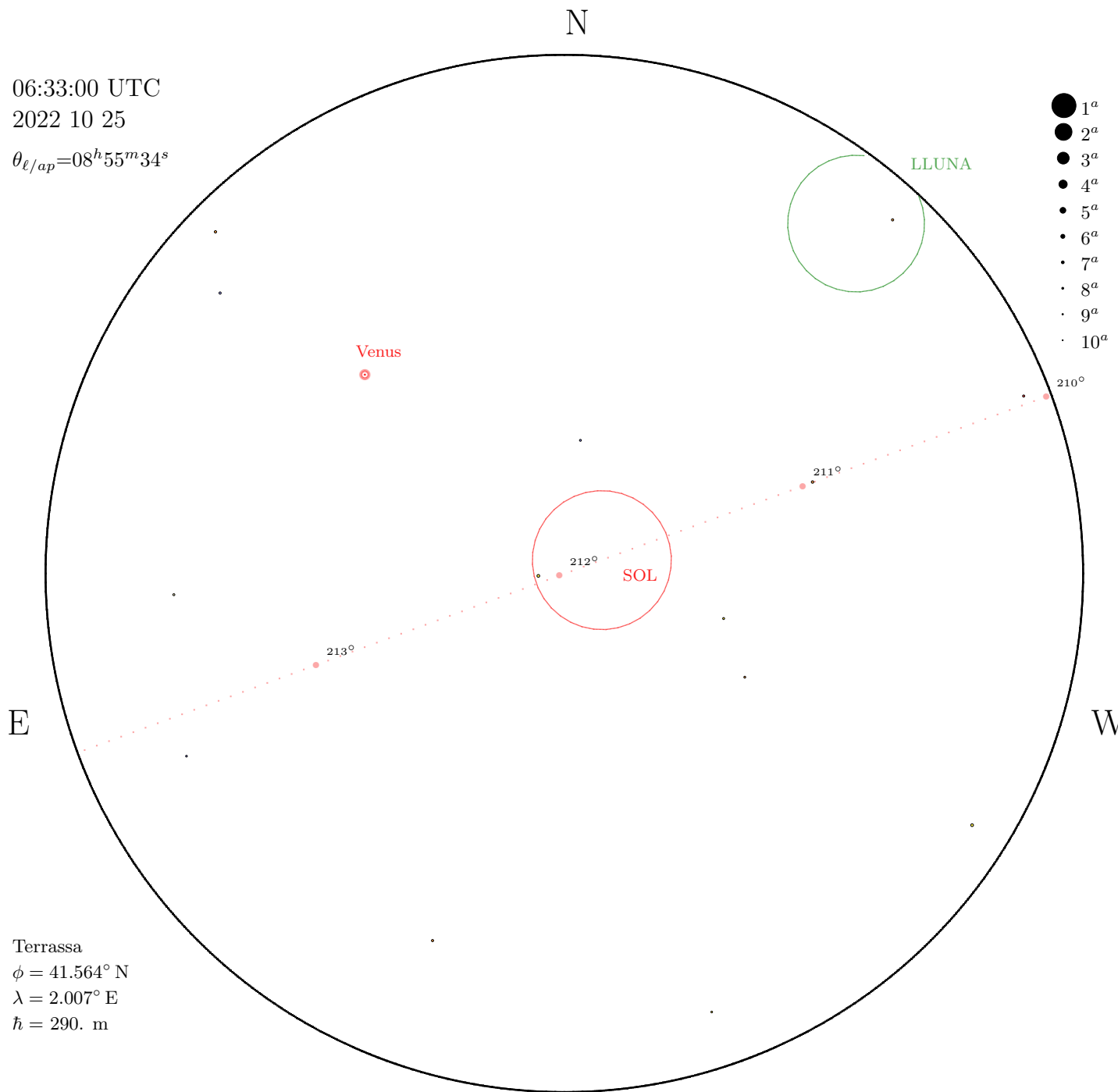
Terrassa
 $\phi = 41.564^{\circ} N$
 $\lambda = 2.007^{\circ} E$
 $\tilde{h} = 290. m$

Seqüència de l'Eclipsi

Fixeu-vos en els moviments del Sol, la Lluna i, fins i tot, Venus (darrera del Sol) per davant de les estrelles fixes.

(Recomenable posar “Pantalla completa”)

06:33:00 UTC
 2022 10 25
 $\theta_{\ell/ap} = 08^h 55^m 34^s$



- 1^a
- 2^a
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- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$
 $V_{*/n} \leq 7.0, n = 0$
 $V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 2.3^{\circ}$
 $a_{\odot} = 288.5^{\circ}$
 $h_C = 3.9^{\circ} / 2\%$
 $a_C = 288.2^{\circ}$

Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = -46.573^{\circ}$)
 $h_0 = 2.193^{\circ}, a_0 = 288.401^{\circ}$
 $\dot{h}_0 = 10.7^{\circ}/h, Ch \dot{a}_0 = 12.6^{\circ}/h$
 $\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

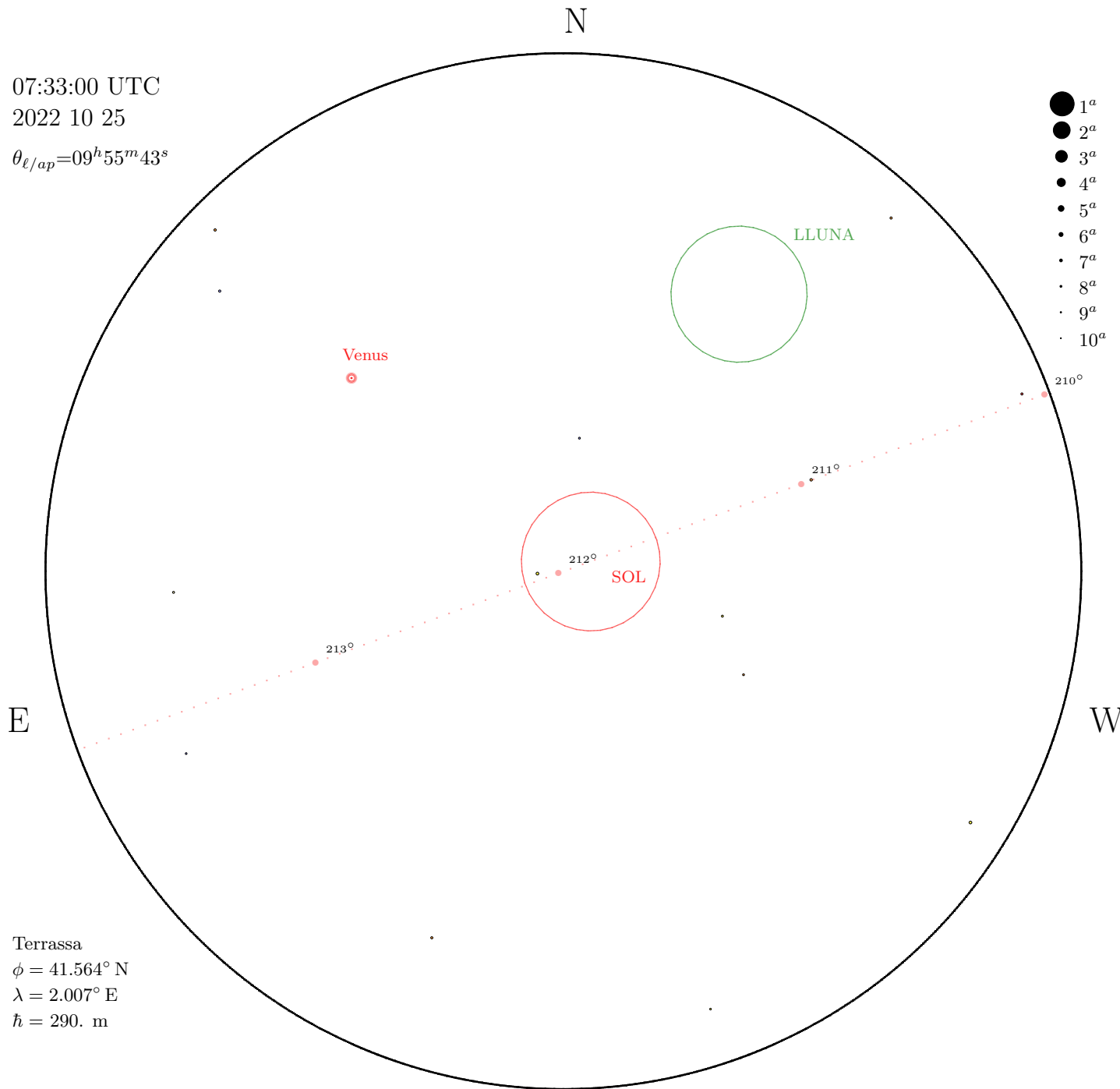
Comentari:

3 hores abans

Terrassa
 $\phi = 41.564^{\circ} N$
 $\lambda = 2.007^{\circ} E$
 $\bar{h} = 290. m$

07:33:00 UTC
2022 10 25

$\theta_{\ell/ap} = 09^h 55^m 43^s$



- 1^a
- 2^a
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- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 12.6^{\circ}$

$a_{\odot} = 299.1^{\circ}$

$h_{\text{C}} = 13.7^{\circ} / 2\%$

$a_{\text{C}} = 298.8^{\circ}$

Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = -42.024^{\circ}$)

$h_0 = 12.490^{\circ}, a_0 = 298.996^{\circ}$

$\dot{h}_0 = 9.8^{\circ}/h, Ch \dot{a}_0 = 14.6^{\circ}/h$

$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

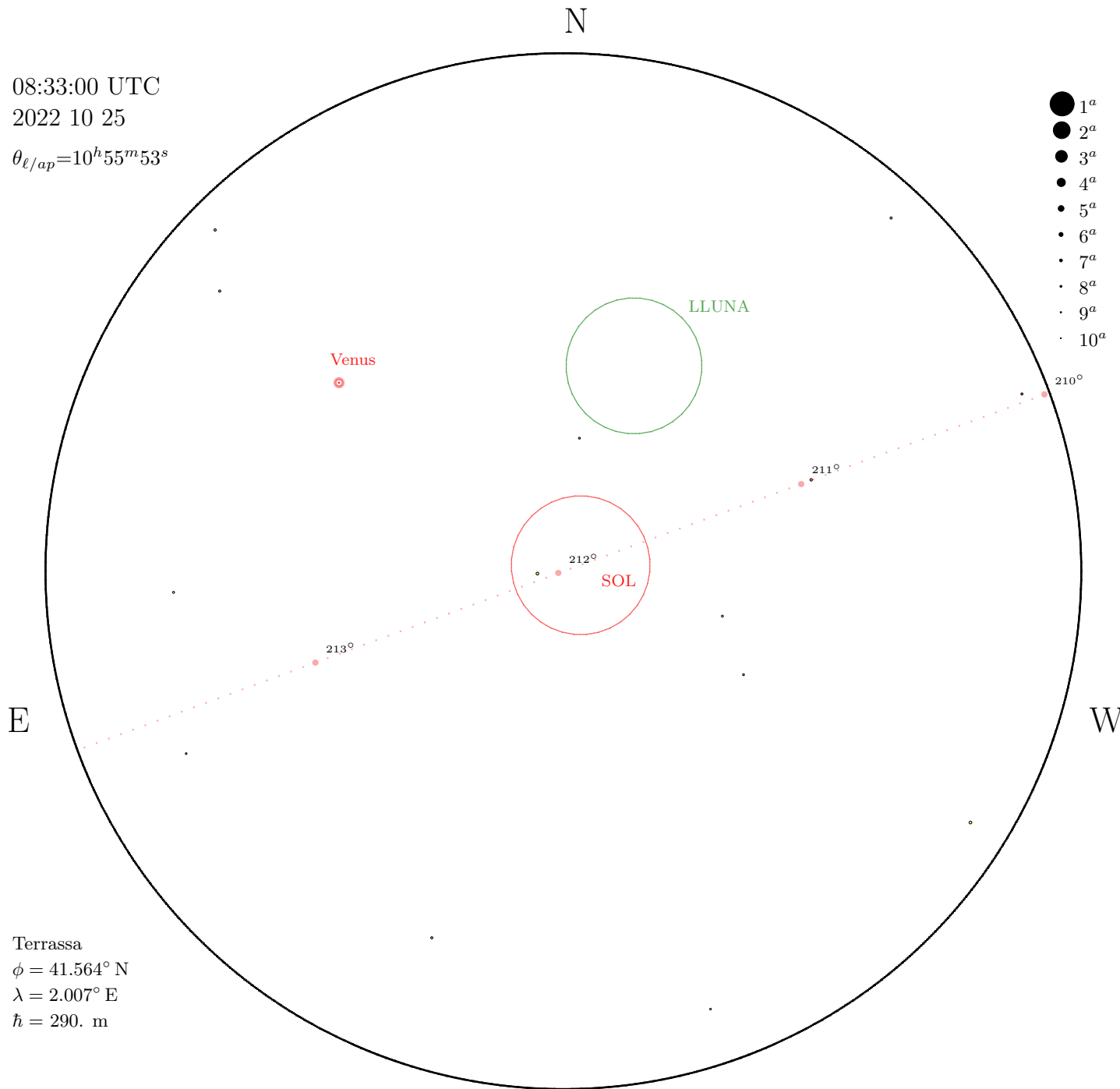
Comentari:

2 hores abans

Terrassa
 $\phi = 41.564^{\circ}$ N
 $\lambda = 2.007^{\circ}$ E
 $\tilde{h} = 290. \text{ m}$

08:33:00 UTC
2022 10 25

$\theta_{\ell/ap} = 10^h 55^m 53^s$



- 1^a
- 2^a
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- 5^a
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- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 21.8^{\circ}$

$a_{\odot} = 311.0^{\circ}$

$h_{\text{C}} = 22.5^{\circ} / 2\%$

$a_{\text{C}} = 310.7^{\circ}$

Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = -35.287^{\circ}$)

$h_0 = 21.708^{\circ}, a_0 = 310.997^{\circ}$

$\dot{h}_0 = 8.5^{\circ}/h, Ch \dot{a}_0 = 15.5^{\circ}/h$

$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

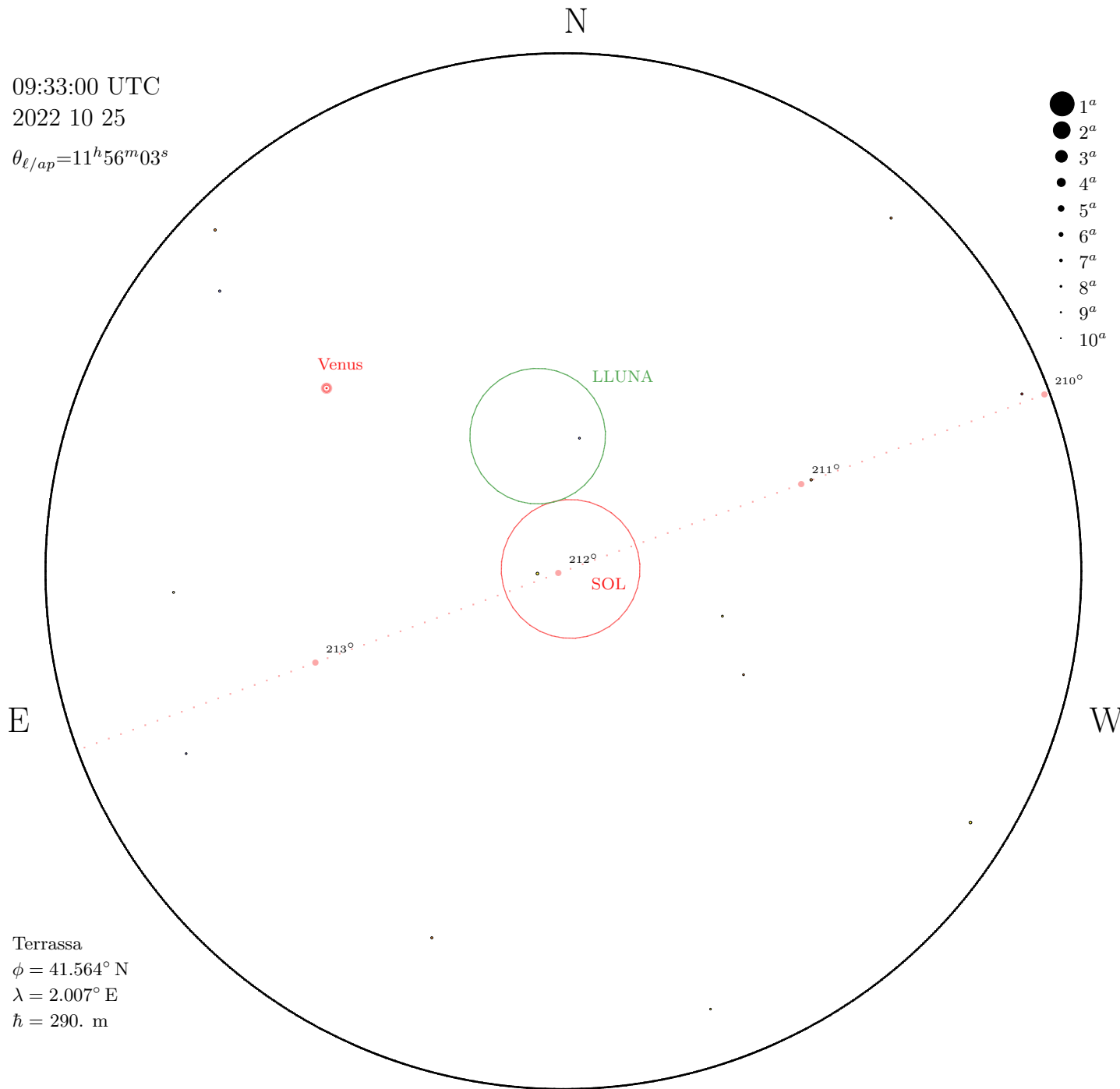
Comentari:

1 hora abans

Terrassa
 $\phi = 41.564^{\circ}$ N
 $\lambda = 2.007^{\circ}$ E
 $\bar{h} = 290. \text{ m}$

09:33:00 UTC
2022 10 25

$\theta_{\ell/ap} = 11^h 56^m 03^s$



- 1^a
- 2^a
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- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 29.3^{\circ}$

$a_{\odot} = 325.0^{\circ}$

$h_{\text{C}} = 29.7^{\circ} / 2\%$

$a_{\text{C}} = 324.6^{\circ}$

Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = -26.039^{\circ}$)

$h_0 = 29.247^{\circ}, a_0 = 325.002^{\circ}$

$\dot{h}_0 = 6.5^{\circ}/h, Ch \dot{a}_0 = 15.5^{\circ}/h$

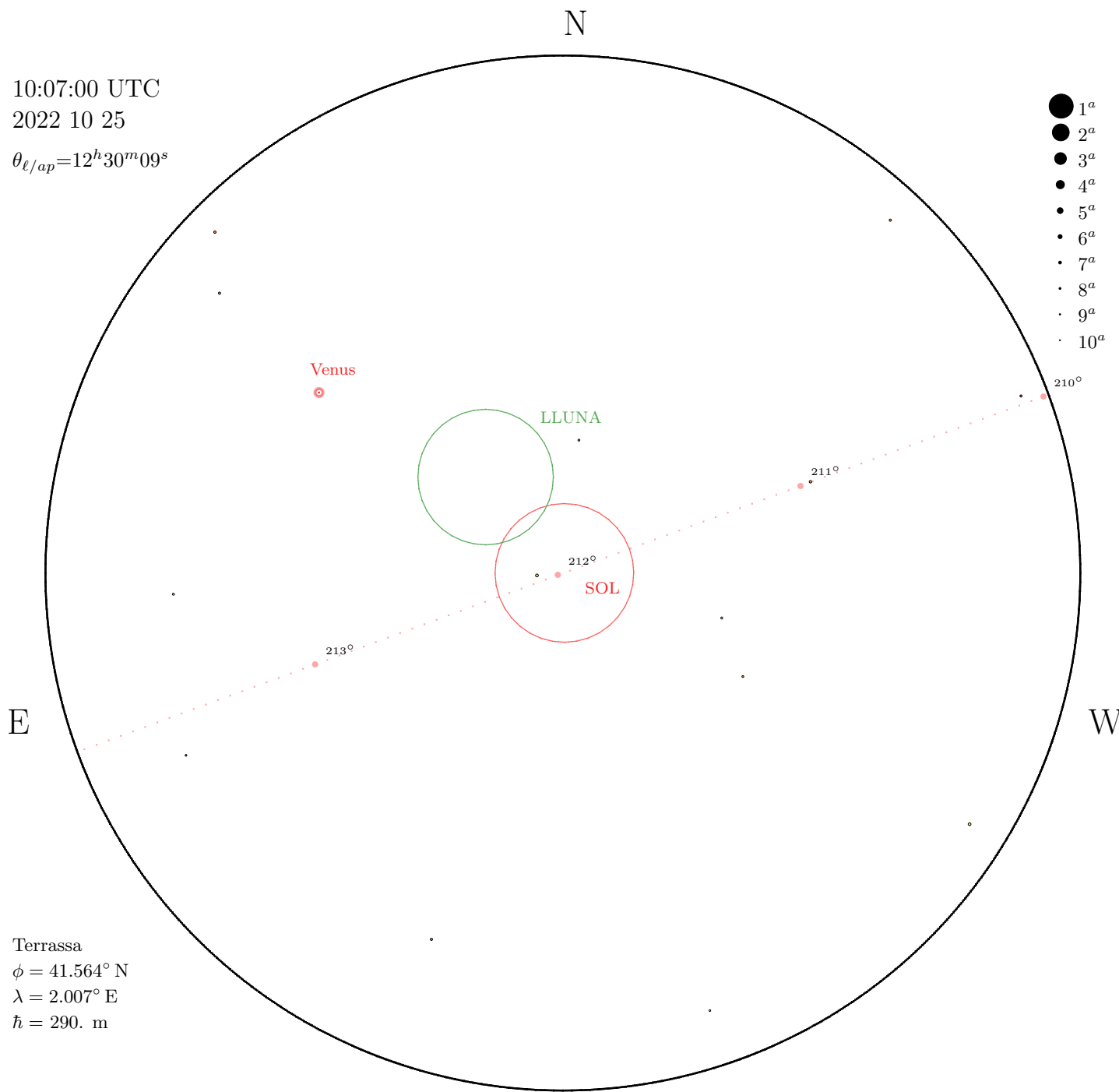
$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

Començament Eclipsi

Terrassa
 $\phi = 41.564^{\circ}$ N
 $\lambda = 2.007^{\circ}$ E
 $\bar{h} = 290. \text{ m}$

10:07:00 UTC
 2022 10 25
 $\theta_{\ell/ap} = 12^h 30^m 09^s$



- 1^a
- 2^a
- 3^a
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- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$
 $V_{*/n} \leq 7.0, n = 0$
 $V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 32.5^{\circ}$
 $a_{\odot} = 334.0^{\circ}$
 $h_{\text{C}} = 32.7^{\circ} / 2\%$
 $a_{\text{C}} = 333.5^{\circ}$

Vista Telescòpica

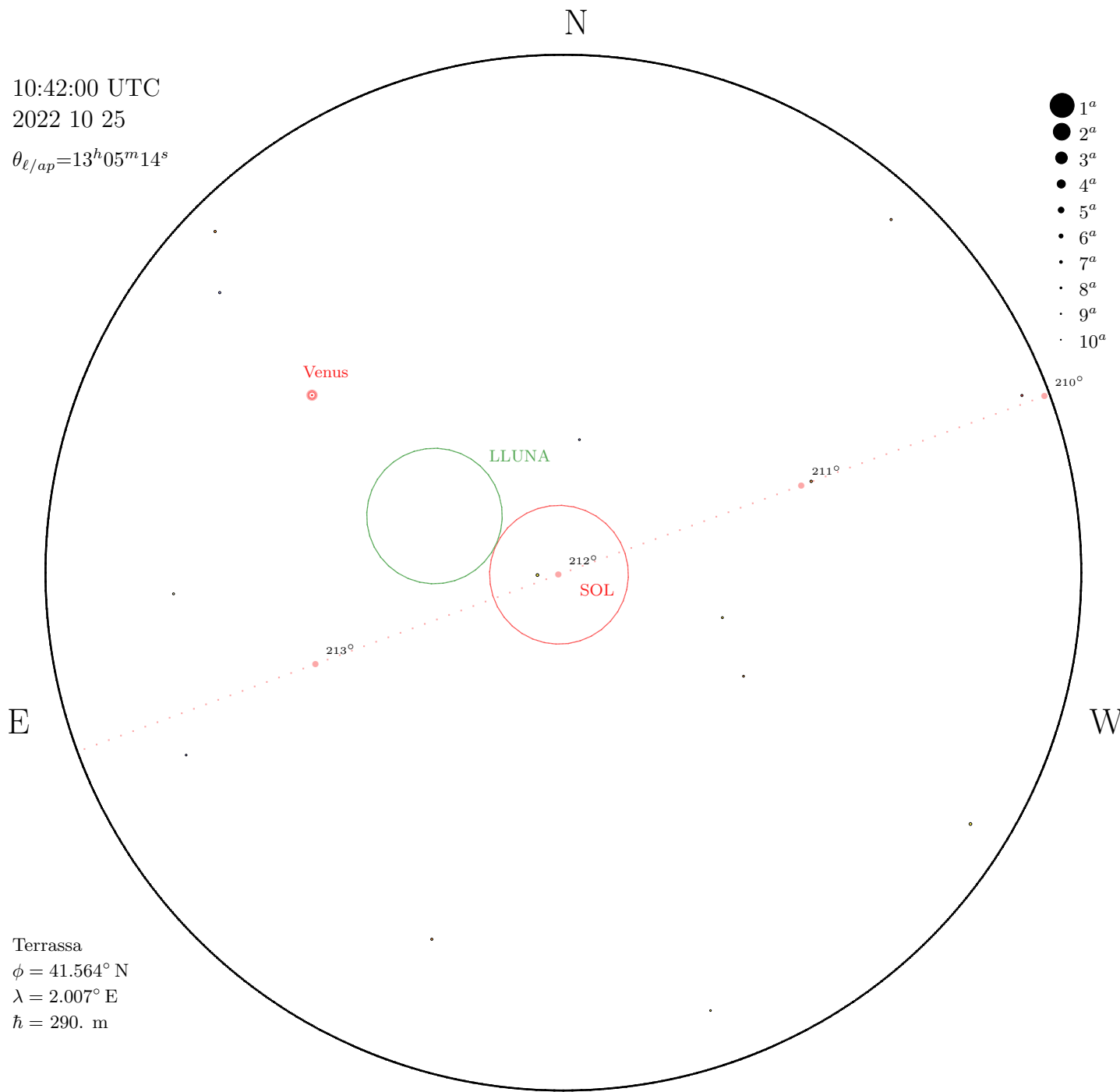
$D = 4.00^{\circ}$ ($Q_{para} = -19.642^{\circ}$)
 $h_0 = 32.489^{\circ}, a_0 = 333.948^{\circ}$
 $\dot{h}_0 = 4.9^{\circ/h}, Ch \dot{a}_0 = 15.2^{\circ/h}$
 $\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

Màxim Eclipsi: 0.1

Terrassa
 $\phi = 41.564^{\circ}$ N
 $\lambda = 2.007^{\circ}$ E
 $\bar{h} = 290.$ m

10:42:00 UTC
 2022 10 25
 $\theta_{\ell/ap} = 13^h 05^m 14^s$



- 1^a
- 2^a
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- 7^a
- 8^a
- 9^a
- 10^a

$$V_*^{Hip} \leq 8.5, n = 14$$

$$V_{*/n} \leq 7.0, n = 0$$

$$V_{dif} \leq 8.5, n = 0$$

$$h_{\odot} = 34.8^{\circ}$$

$$a_{\odot} = 343.8^{\circ}$$

$$h_{\text{C}} = 35.0^{\circ} / 3\%$$

$$a_{\text{C}} = 343.2^{\circ}$$

Vista Telescòpica

$$D = 4.00^{\circ} \quad (Q_{para} = -12.285^{\circ})$$

$$h_0 = 34.854^{\circ}, \quad a_0 = 343.860^{\circ}$$

$$\dot{h}_0 = 3.1^{\circ}/h, \quad Ch \dot{a}_0 = 14.9^{\circ}/h$$

$$\alpha_0 = 13.9870^h, \quad \delta_0 = -12.159^{\circ}$$

Comentari:

Final Eclipsi

Terrassa
 $\phi = 41.564^{\circ} \text{ N}$
 $\lambda = 2.007^{\circ} \text{ E}$
 $\tilde{h} = 290. \text{ m}$

N

11:42:00 UTC
2022 10 25

$\theta_{\ell/ap} = 14^h 05^m 24^s$

- 1^a
- 2^a
- 3^a
- 4^a
- 5^a
- 6^a
- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 36.2^{\circ}$

$a_{\odot} = 1.8^{\circ}$

$h_{\text{C}} = 36.2^{\circ} / 3\%$

$a_{\text{C}} = 0.8^{\circ}$

Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = 1.435^{\circ}$)

$h_0 = 36.258^{\circ}, a_0 = 1.875^{\circ}$

$\dot{h}_0 = -0.4^{\circ}/h, Ch\dot{a}_0 = 14.7^{\circ}/h$

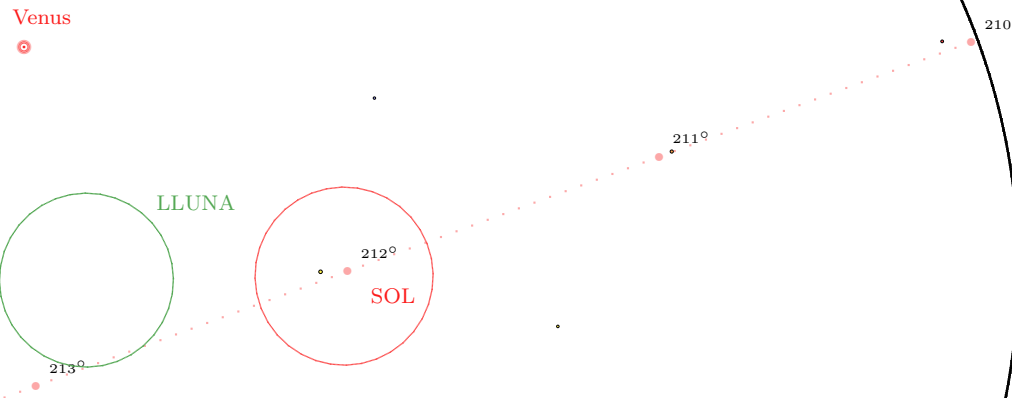
$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

1 hora més tard

E

W



Terrassa
 $\phi = 41.564^{\circ}$ N
 $\lambda = 2.007^{\circ}$ E
 $h = 290. \text{ m}$

N

12:42:00 UTC

2022 10 25

$\theta_{\ell/ap} = 15^h 05^m 34^s$

- 1^a
- 2^a
- 3^a
- 4^a
- 5^a
- 6^a
- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

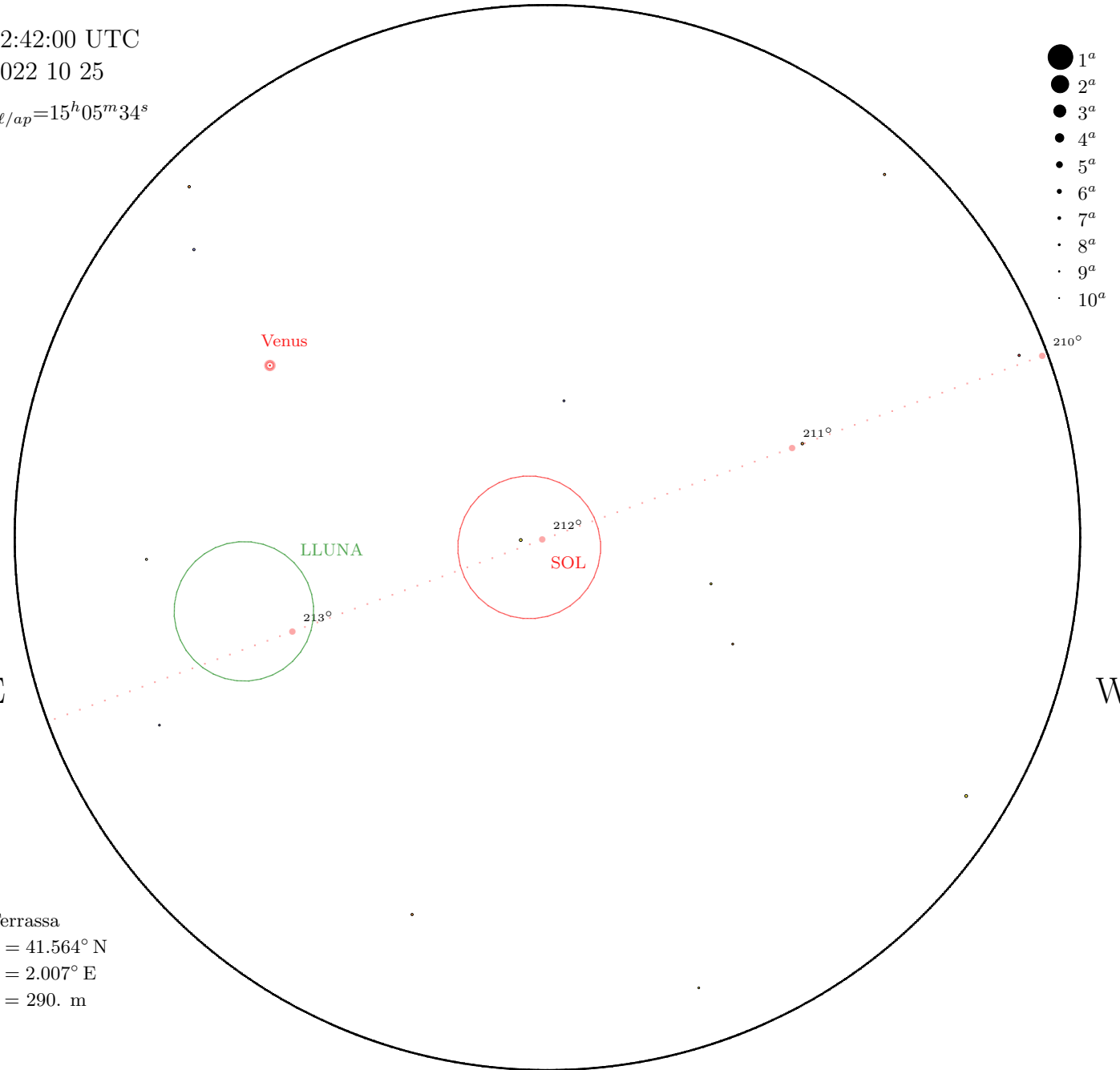
$h_{\odot} = 34.1^{\circ}$

$a_{\odot} = 19.6^{\circ}$

$h_C = 34.2^{\circ} / 3\%$

$a_C = 18.3^{\circ}$

E



Vista Telescòpica

$D = 4.00^{\circ}$ ($Q_{para} = 14.956^{\circ}$)

$h_0 = 34.142^{\circ}, a_0 = 19.706^{\circ}$

$\dot{h}_0 = -3.8^{\circ}/h, Ch \dot{a}_0 = 15.0^{\circ}/h$

$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

2 hores més tard

Terrassa

$\phi = 41.564^{\circ} \text{ N}$

$\lambda = 2.007^{\circ} \text{ E}$

$h = 290. \text{ m}$

N

13:42:00 UTC

2022 10 25

$\theta_{\ell/ap} = 16^h 05^m 44^s$

- 1^a
- 2^a
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- 4^a
- 5^a
- 6^a
- 7^a
- 8^a
- 9^a
- 10^a

$V_*^{Hip} \leq 8.5, n = 14$

$V_{*/n} \leq 7.0, n = 0$

$V_{dif} \leq 8.5, n = 0$

$h_{\odot} = 28.9^{\circ}$

$a_{\odot} = 35.7^{\circ}$

$h_{\text{C}} = 29.1^{\circ} / 3\%$

$a_{\text{C}} = 34.0^{\circ}$

Venus



210°

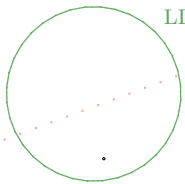
211°

212°

SOL

213°

LLUNA



E

W

Terrassa

$\phi = 41.564^{\circ} \text{ N}$

$\lambda = 2.007^{\circ} \text{ E}$

$h = 290. \text{ m}$

Vista Telescòpica

$D = 4.00^{\circ} (Q_{para} = 26.623^{\circ})$

$h_0 = 28.884^{\circ}, a_0 = 35.837^{\circ}$

$\dot{h}_0 = -6.6^{\circ/h}, Ch \dot{a}_0 = 15.5^{\circ/h}$

$\alpha_0 = 13.9870^h, \delta_0 = -12.159^{\circ}$

Comentari:

3 hores més tard