Mage Observing Run, Feb. 9, 2021

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Aim:
take MagE spectra of 8 low z galaxies with extremely metal poor emission line regions

General setup:

- 1x1 binning, fast, full readout

- In good seeing use 0.7" slit

- in bad seeing use 1.0" slit

- catalog file is called mrfeb21.cat

- try to get 3x900s on-source exposure time per object

- where possible try to see the galaxy directly on the slitviewer; put the slit roughly where suggested by the finding chart enlargements, even if this means off-center.

- if gal. not visible, use offset stars
  (tel. offsets in the FC are in arcseconds from the star to the target)

Afternoon calibrations:

(largely just the standard calibs. suggested on the web page):

10x0s bias

0.7" slit :

1x4s ThAr
1x10s ThAr
5x35s Xe flash in focus
5x90s Xe flash in focus
15x30s Qh domeflats in focus

1.0" slit :

1x2s ThAr
1x10s ThAr
5x25s Xe flash in focus
5x60s Xe flash in focus
15x20s Qh domeflats in focus

5.0" slit:

15x15s out of focus (focus=1100) (all orders but the six bluest orders saturated)
5x100s out of focus (focus=1100) (all orders but the two bluest saturated)

twilight skyflats for 0.7", 1.0" and 5"

night time observations:

-all observations at parallactic angle

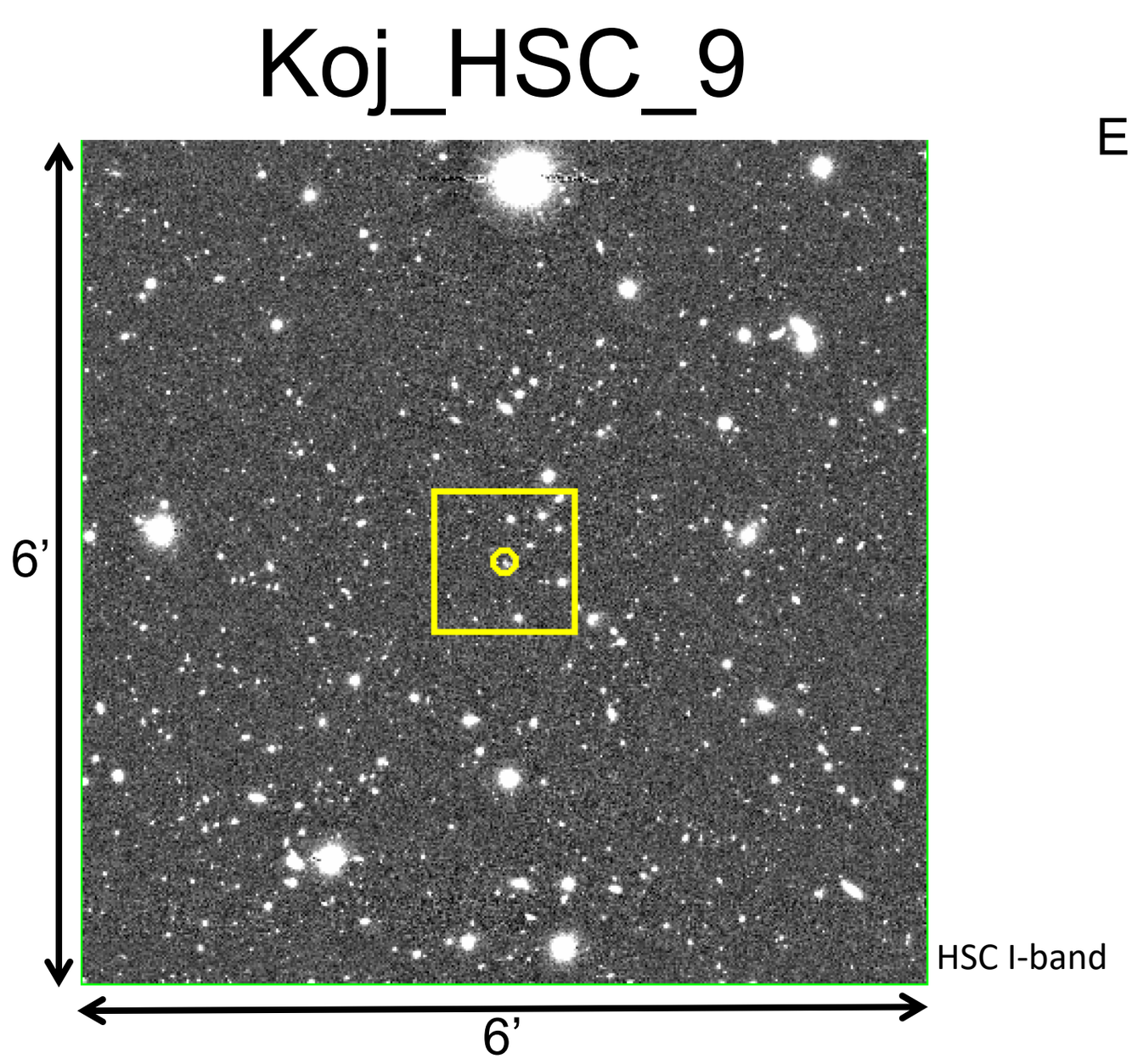
- get standard star exposure at the beginning (e.g. HD49798 06:48:04.64 -44:18:59.3)

- try to get 3x900s science exposures for each object

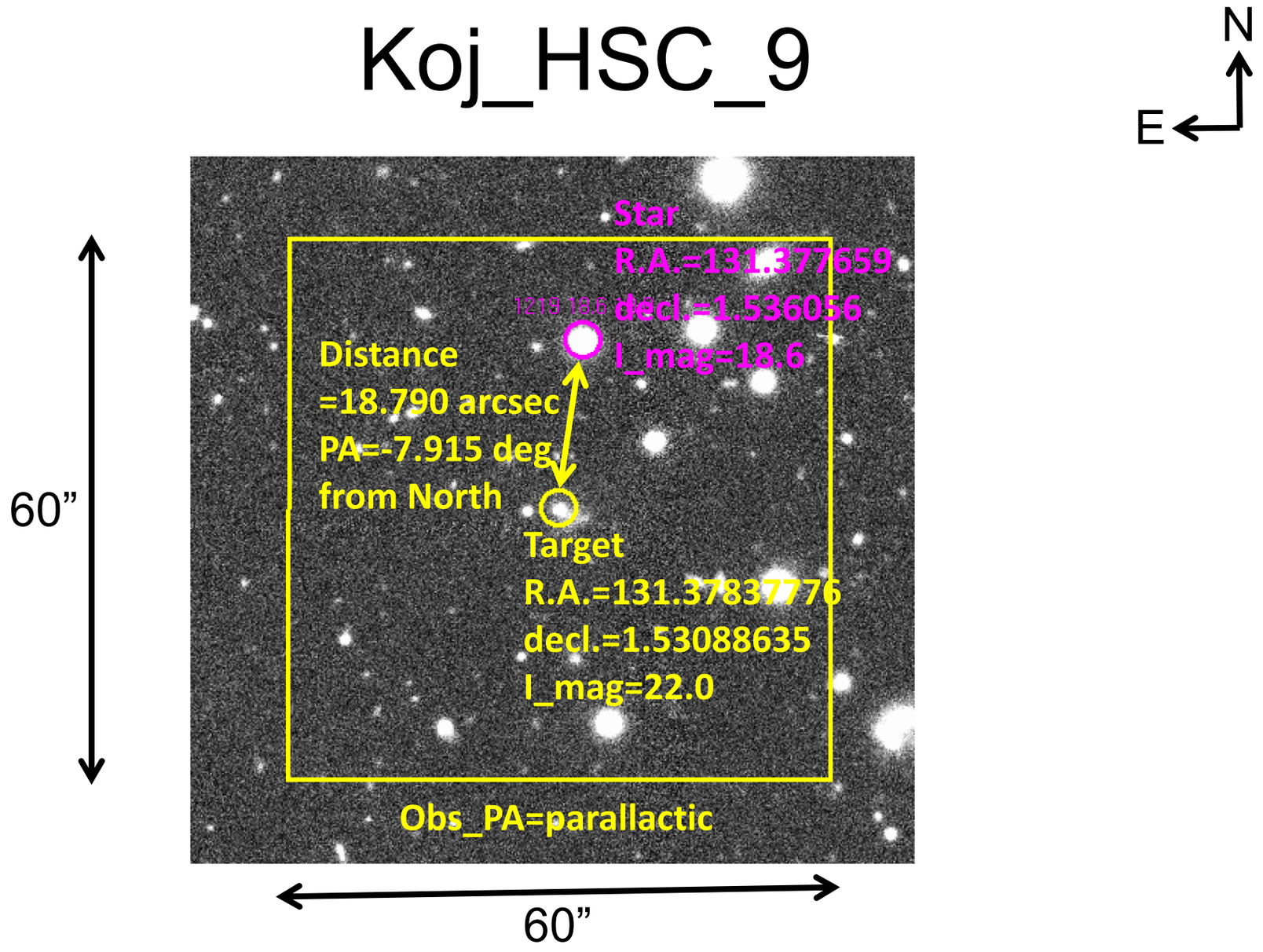
- take ThAr before moving to next object

- get standard star exposure in the morning (e.g., EG274 16:23:33.75 -39:13:47.5)

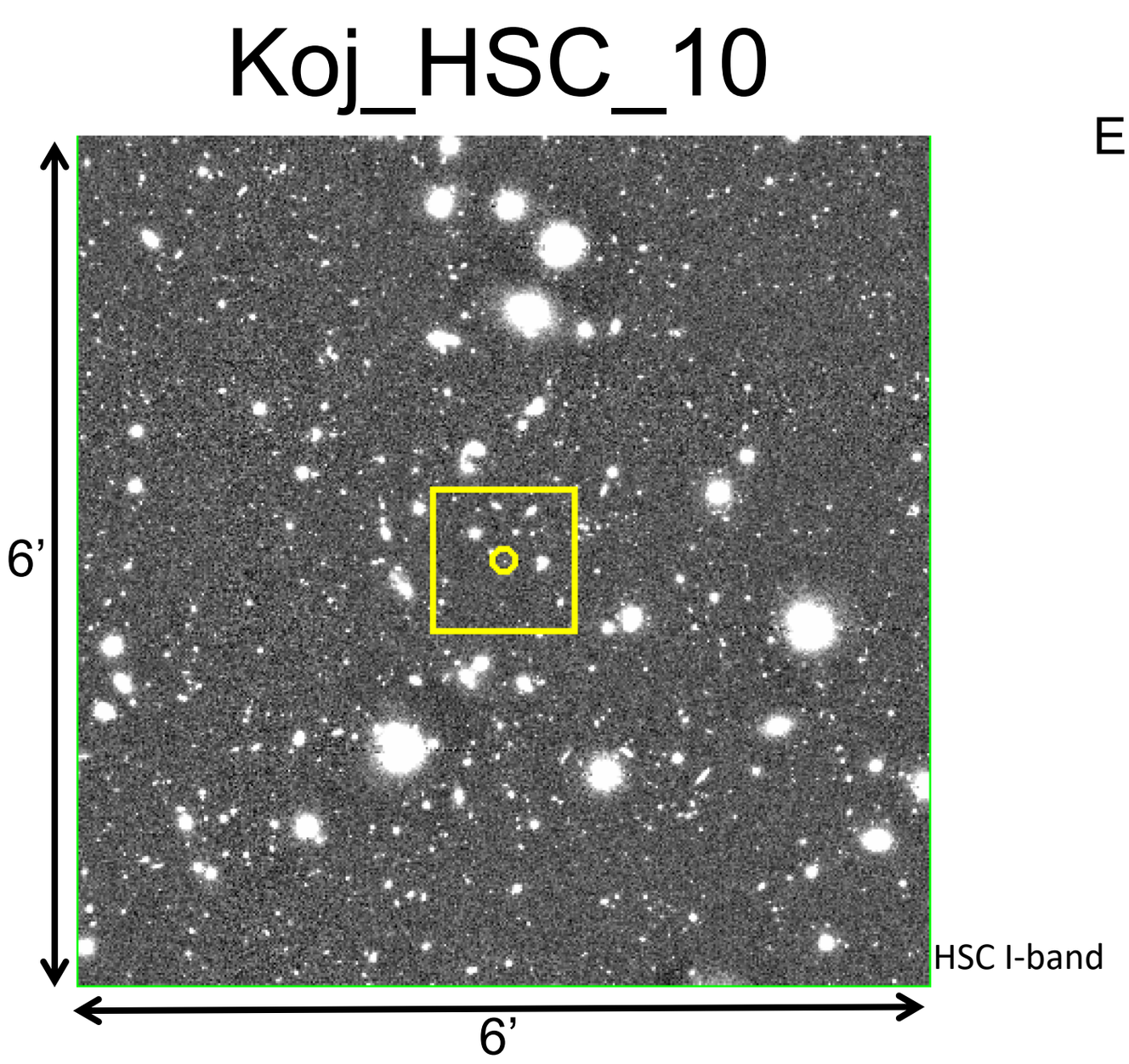
1



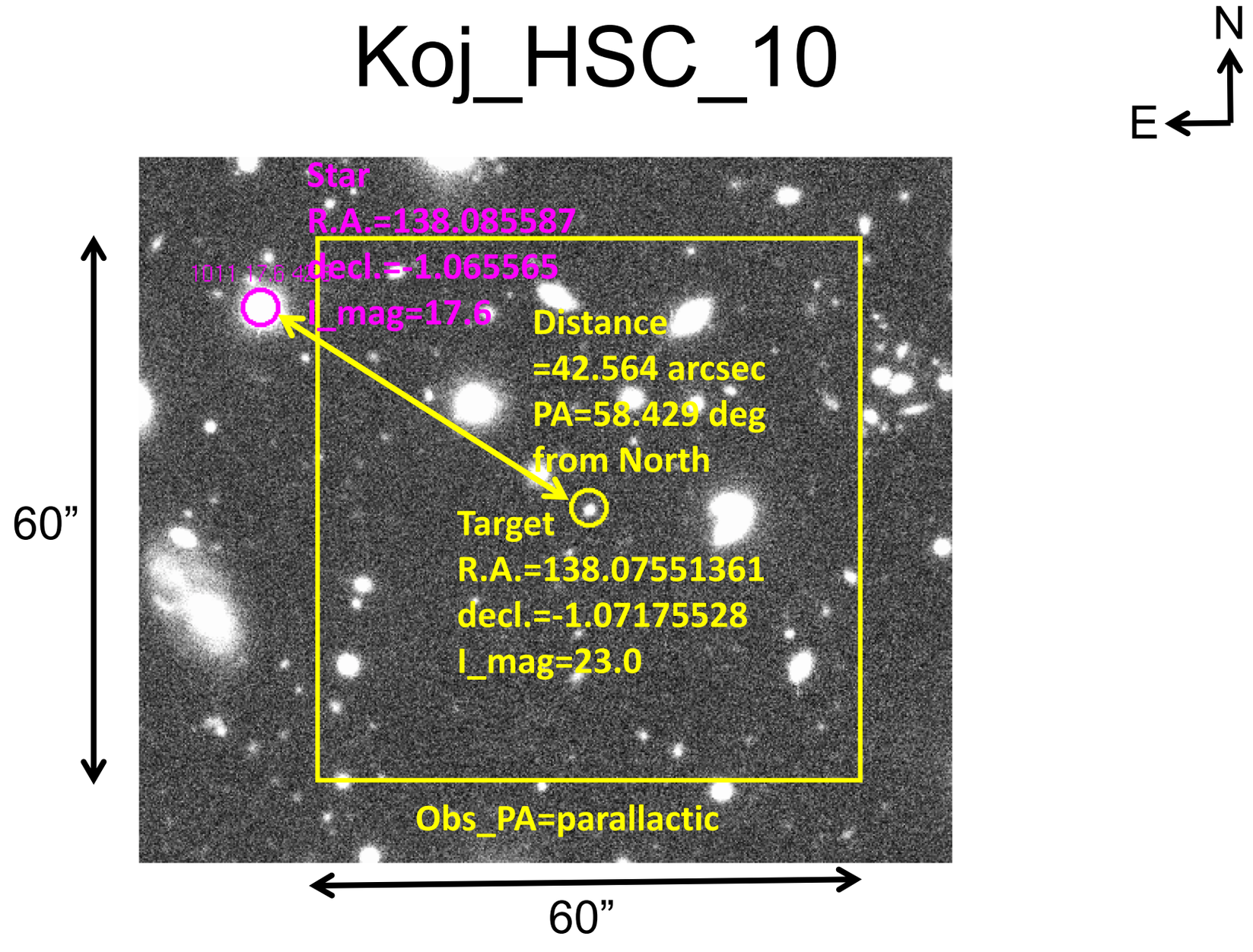
1 **Koj_HSC_9** **08:45:30.81** **01:31:51.19**
star_Koj_HSC_9 **08:45:30.64** **01:32:09.80** **offset: 2.55” E 18.61” S**



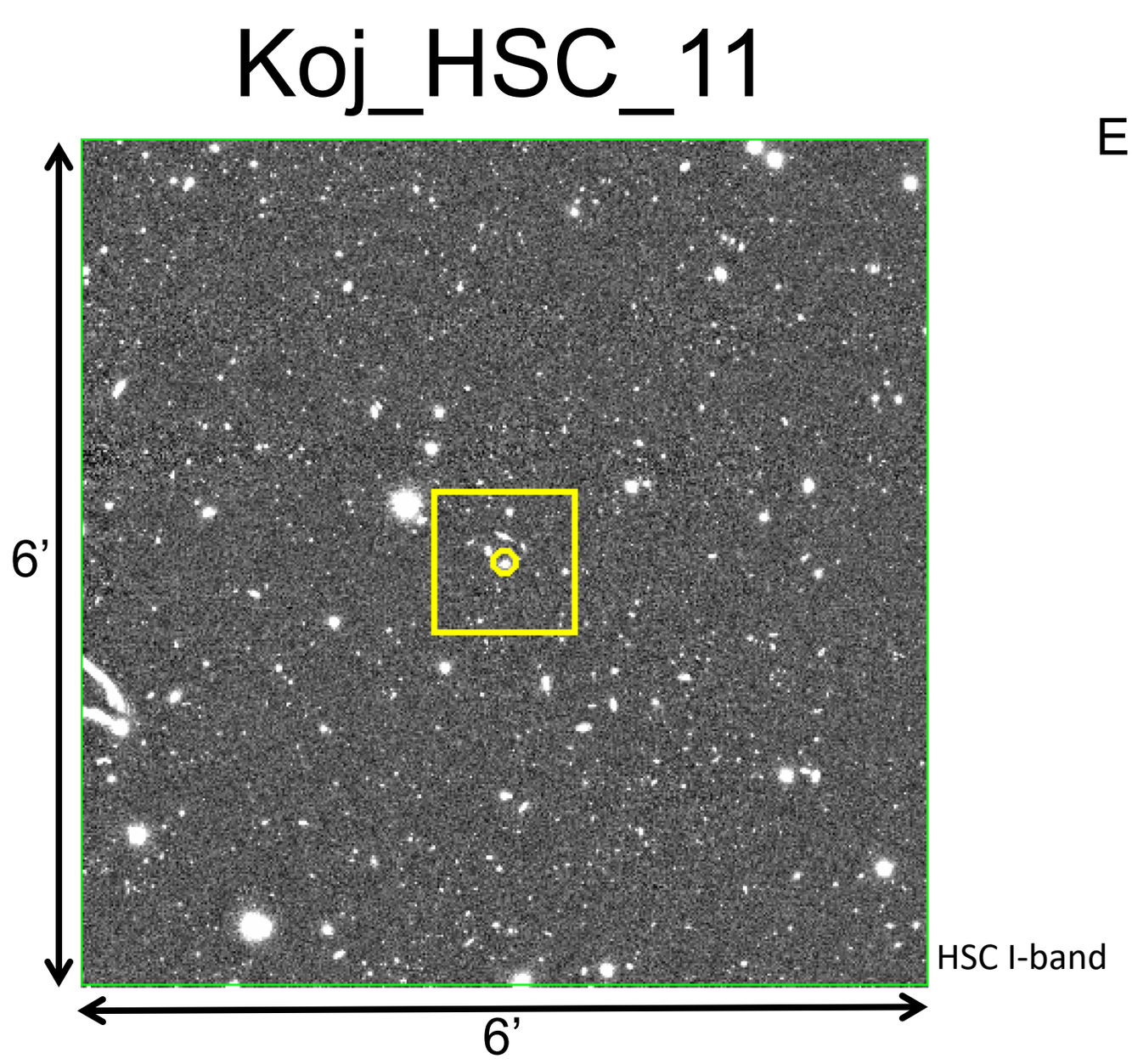
2



2 **Koj_HSC_10** **09:12:18.12** **-01:04:18.32**
star_Koj_HSC_10 **09:12:20.54** **-01:03:56.03** **offset: 36.29” W 22.29” S**

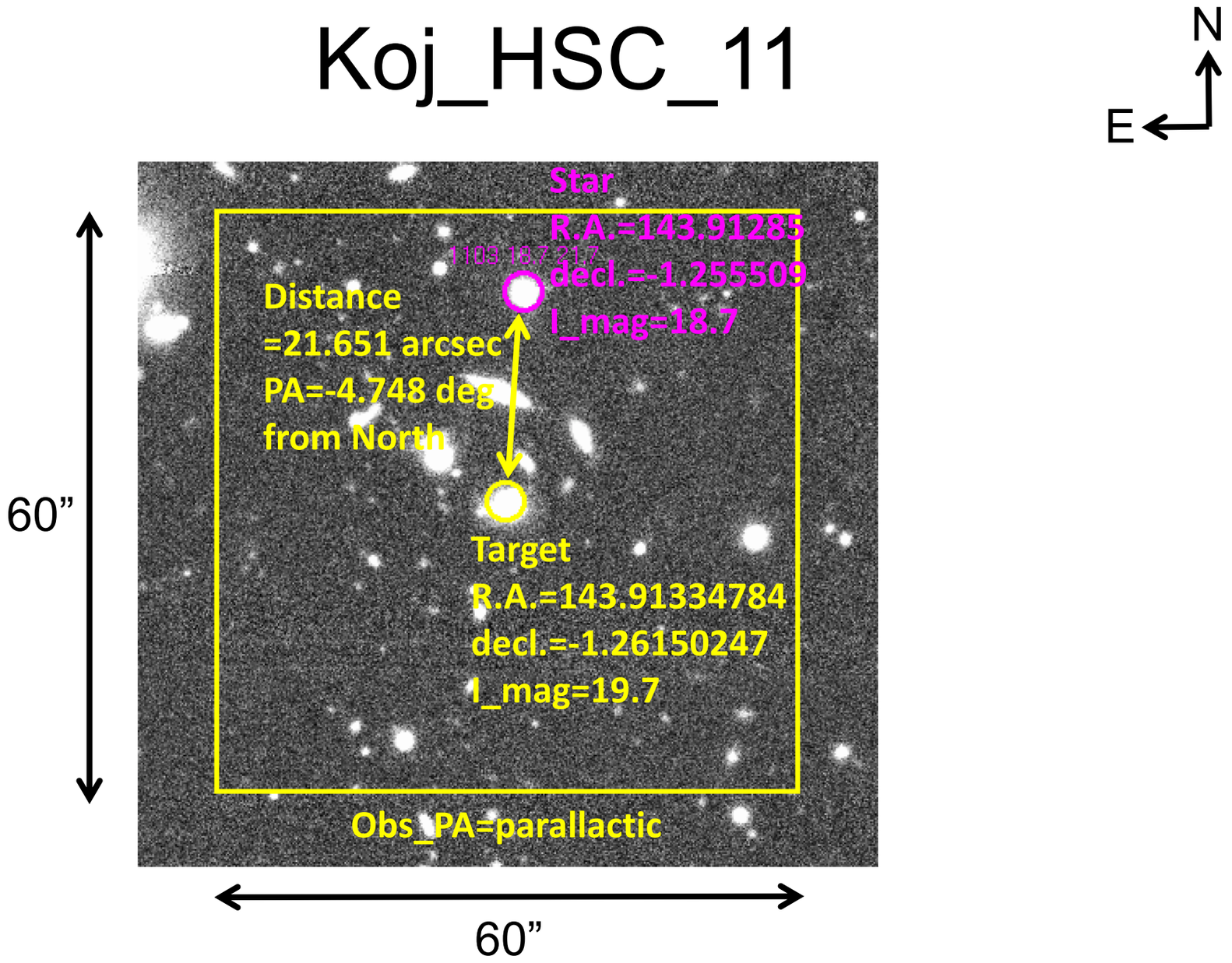


3

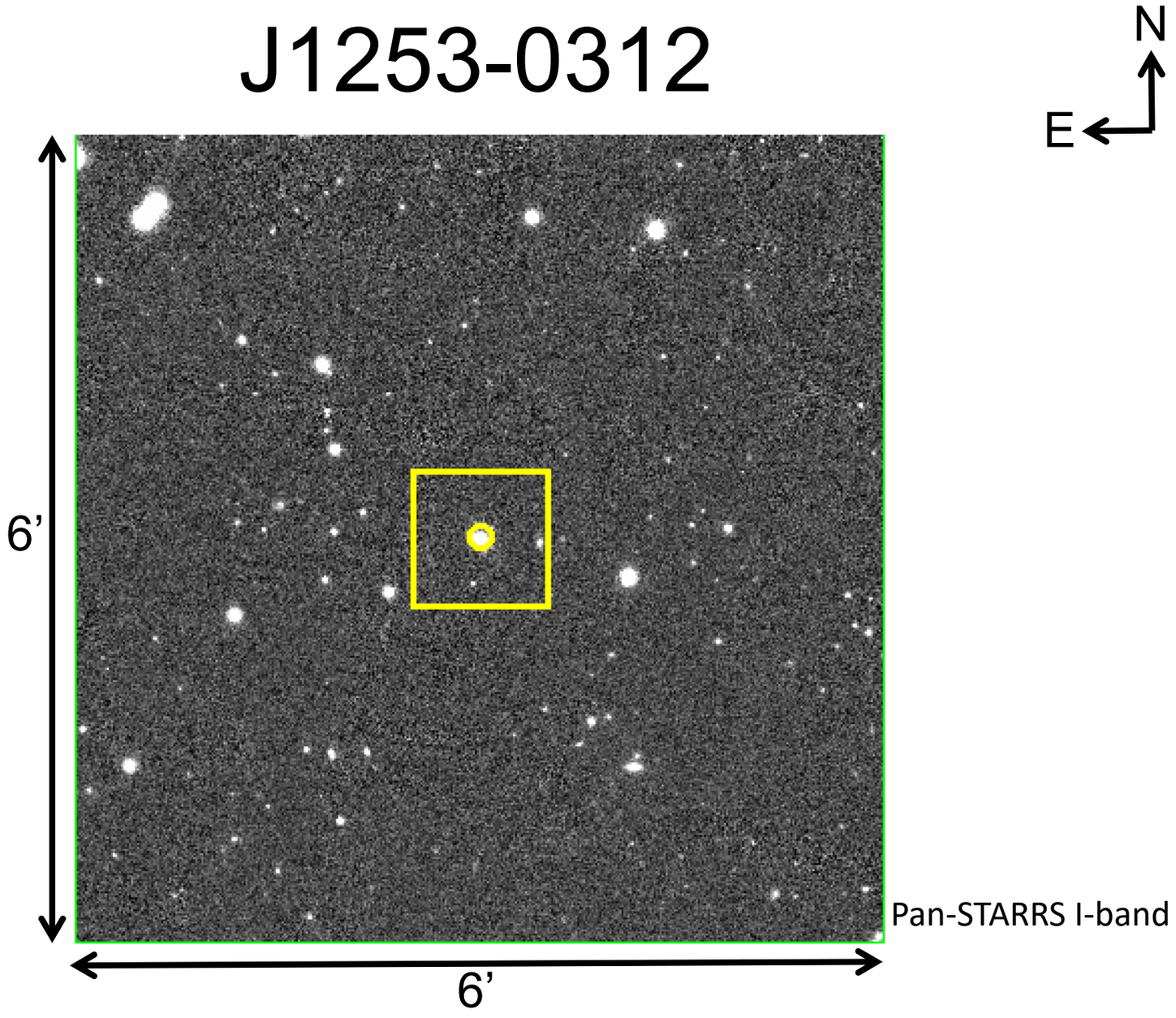


3

Koj_HSC_11 09:35:39.20 -01:15:41.41
star_Koj_HSC_11 09:35:39.08 -01:15:19.83 offset: 1.80” E 21.58” S

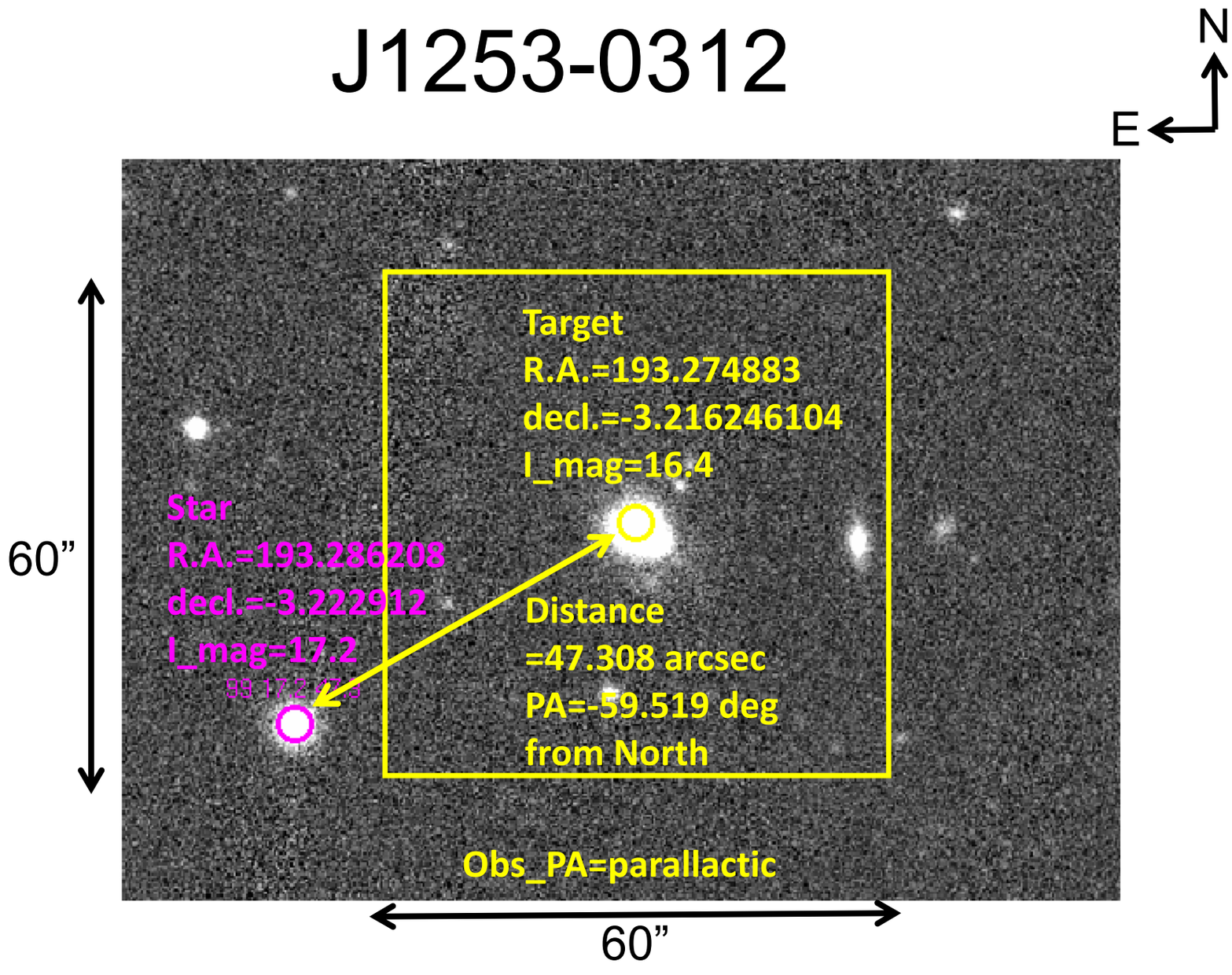


4



4

J1253-0312 12:53:05.97 -03:12:58.49
star_J1253-0312 12:53:08.69 -03:13:22.48 offset: 40.74” W 23.99” N



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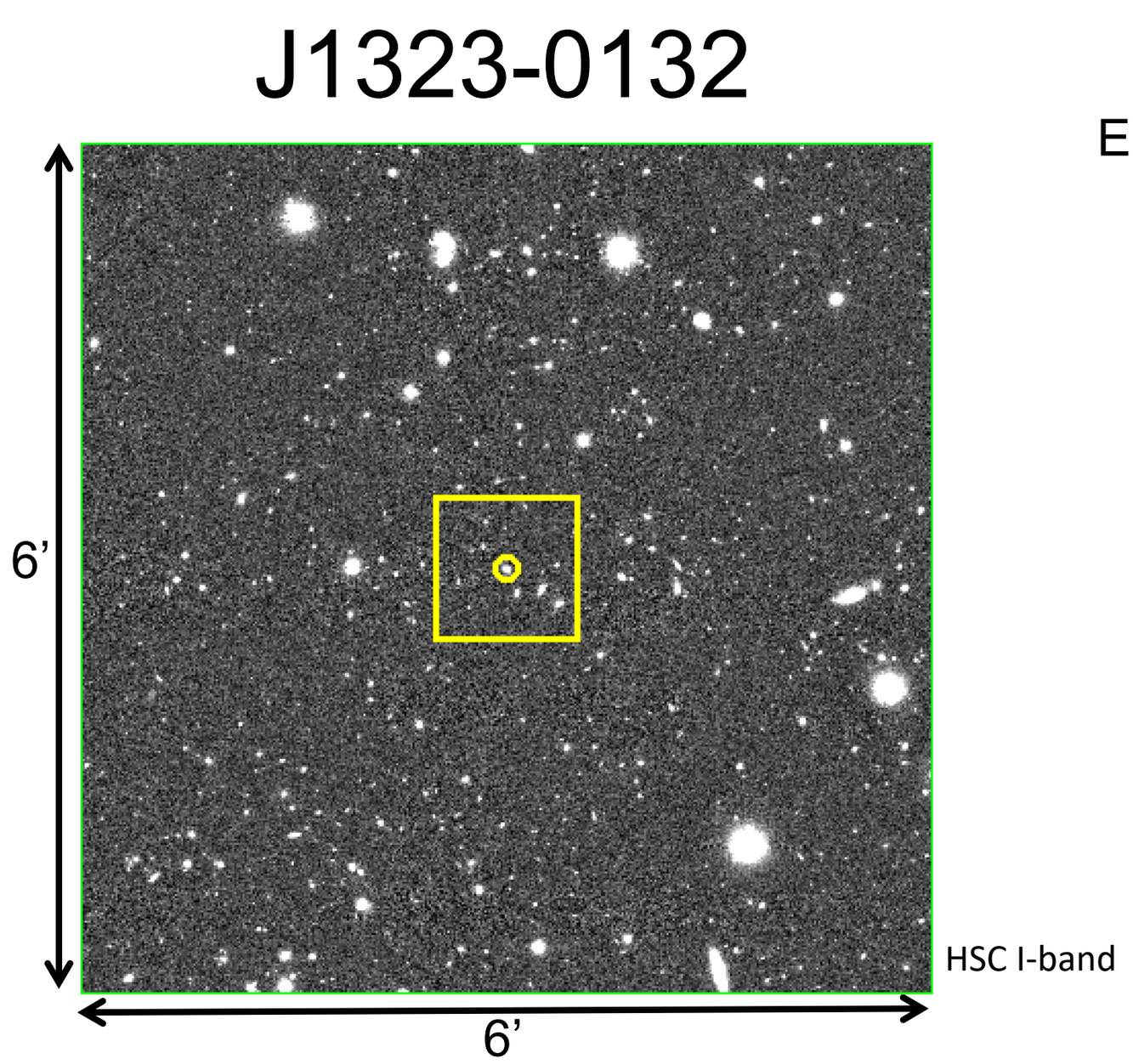
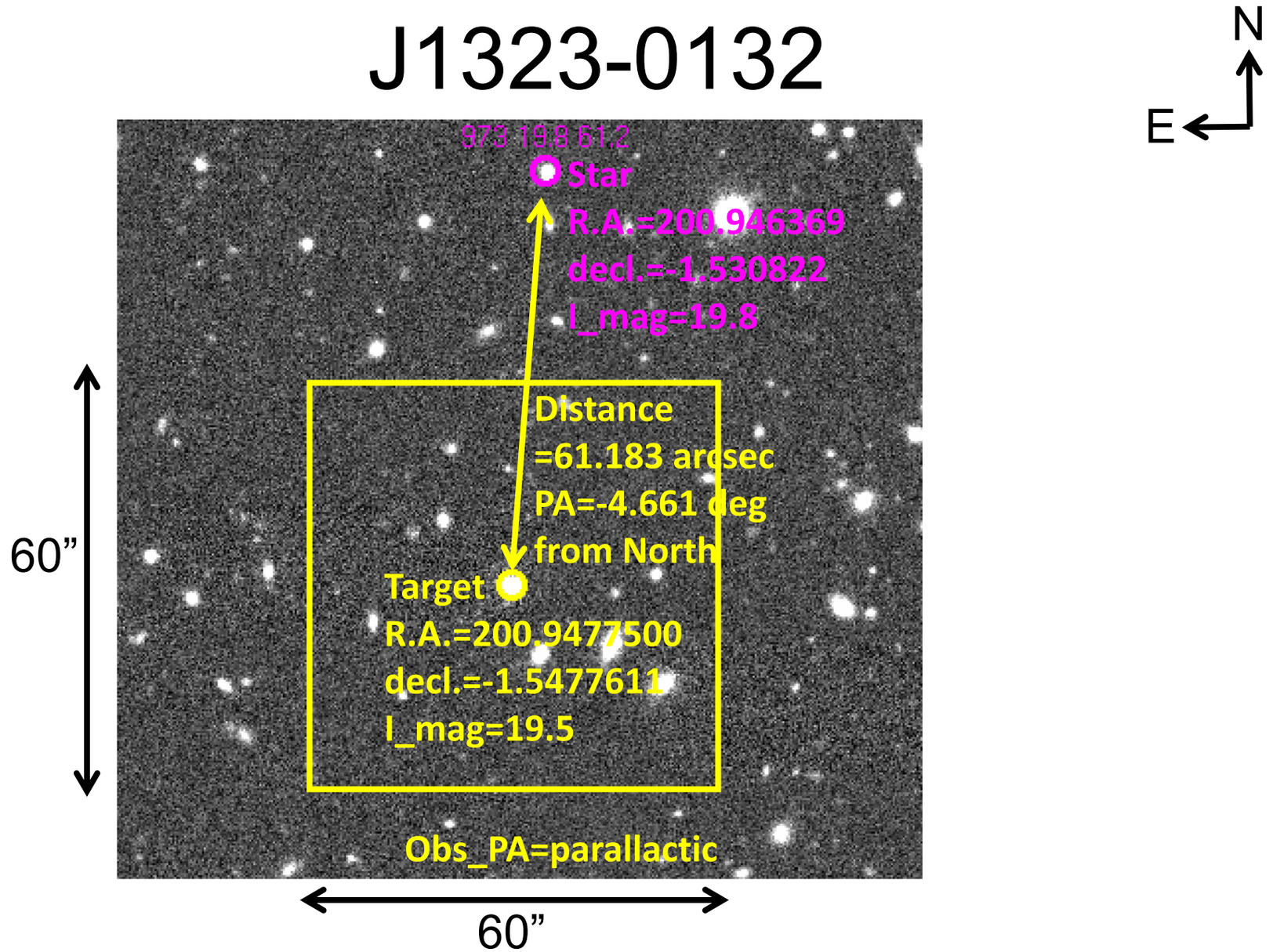
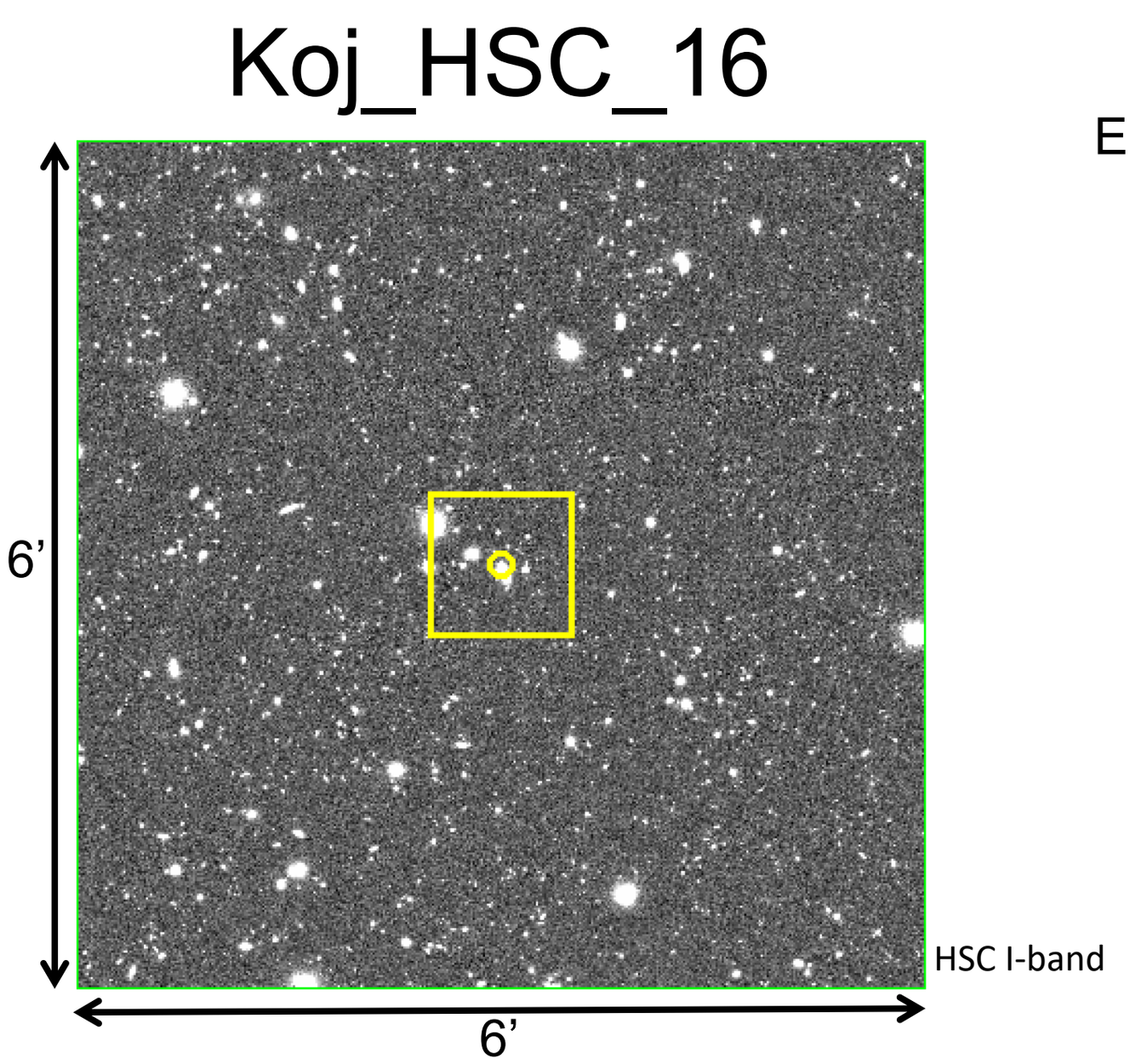


5 J1323-0132 13:23:47.46 -01:32:51.94

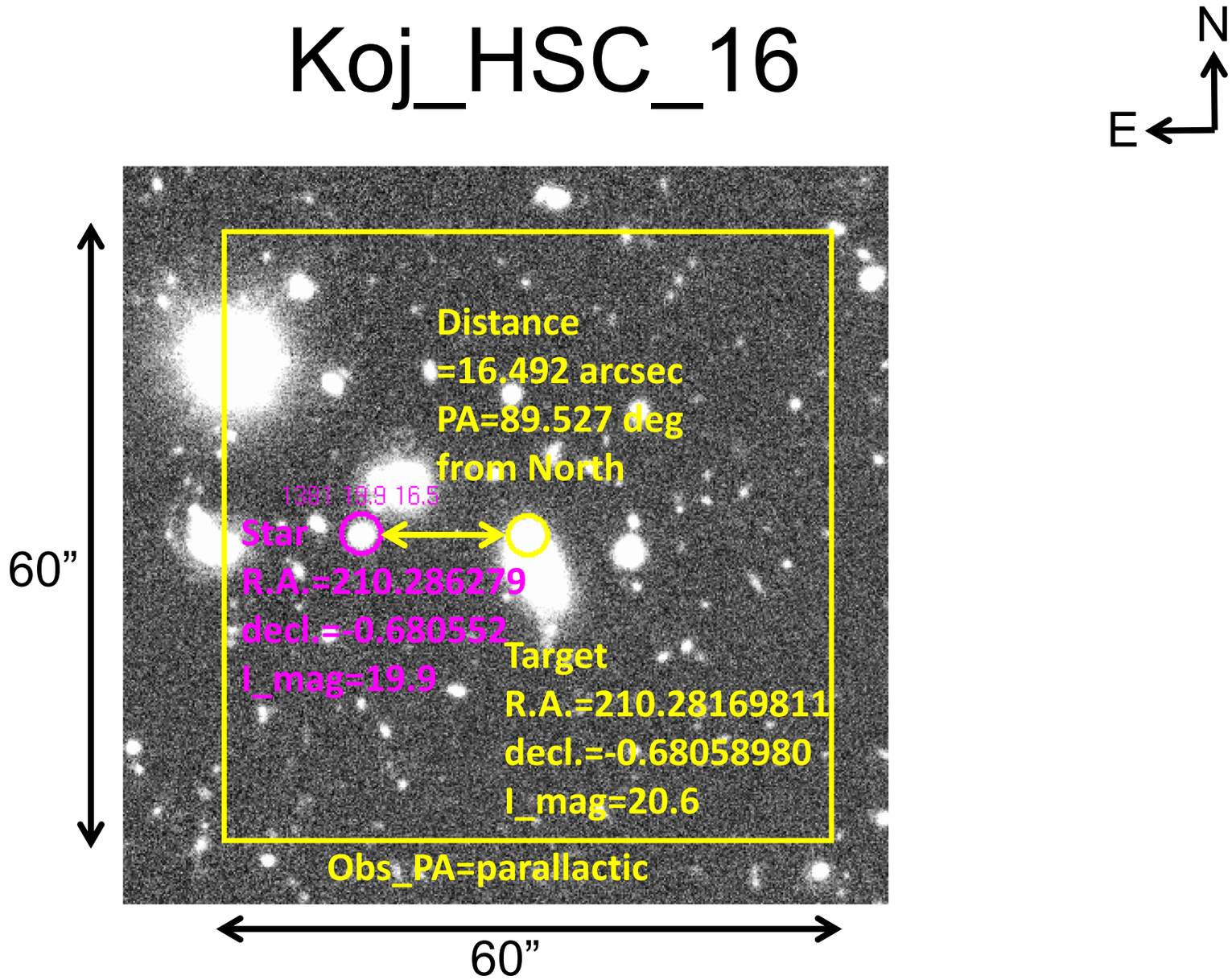
star_J1323-0132 13:23:47.13 -01:31:50.96 offset: 4.95” E 60.98” S

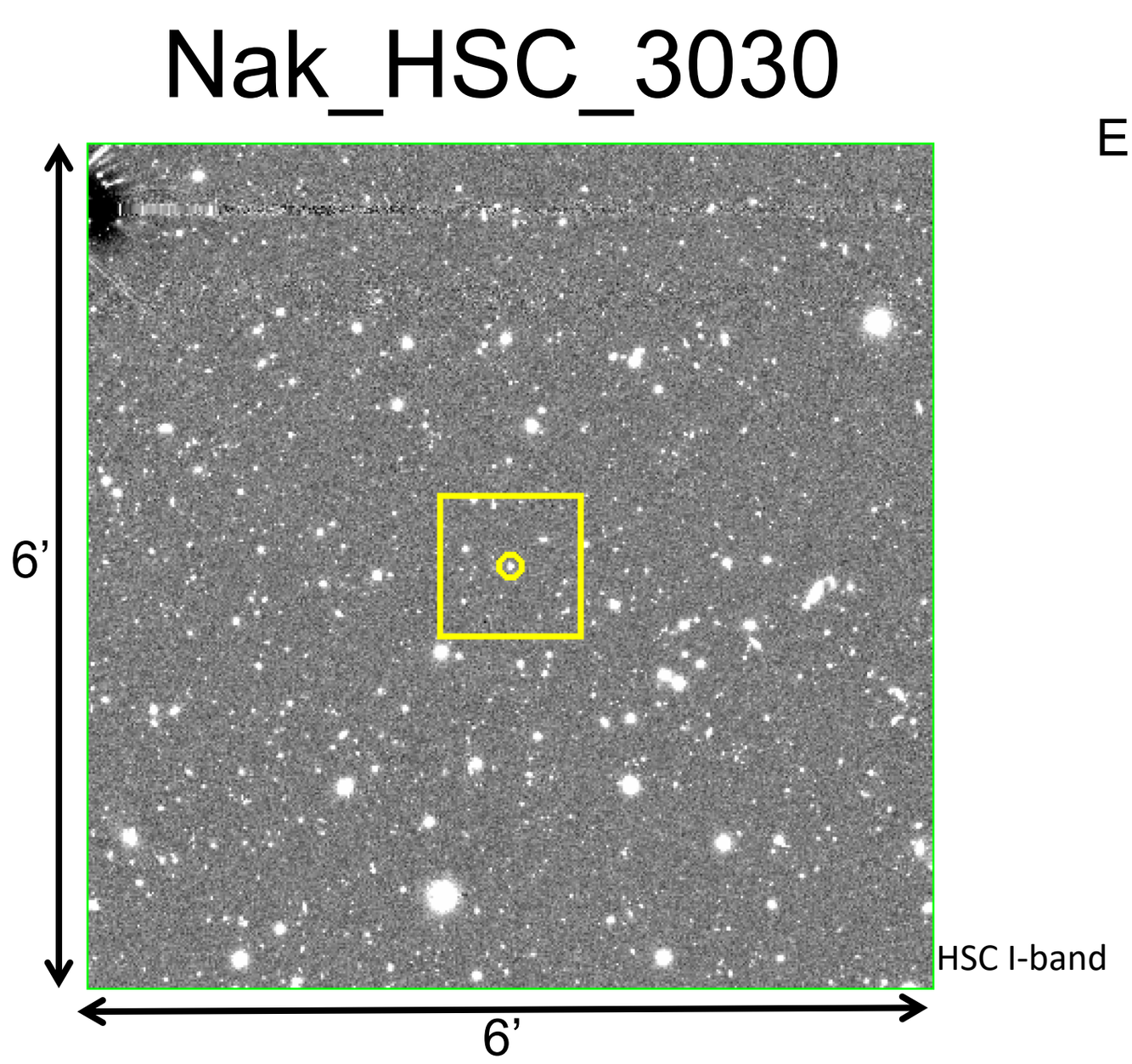


6

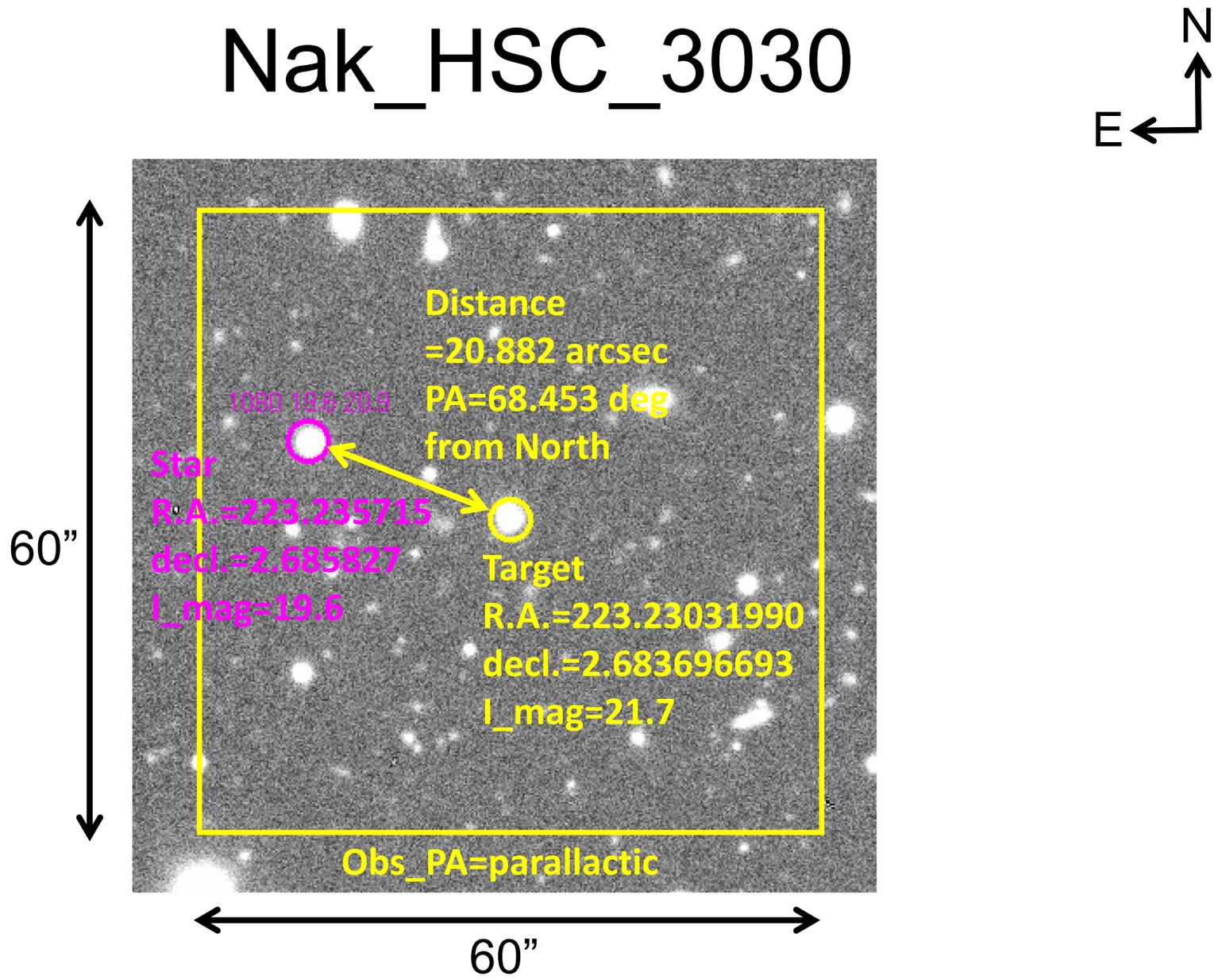


6 **Koj_HSC_16** **14:01:07.61** **-00:40:50.12**
star_Koj_HSC_16 **14:01:08.71** **-00:40:49.99** **offset: 16.50” W 0.13” S**

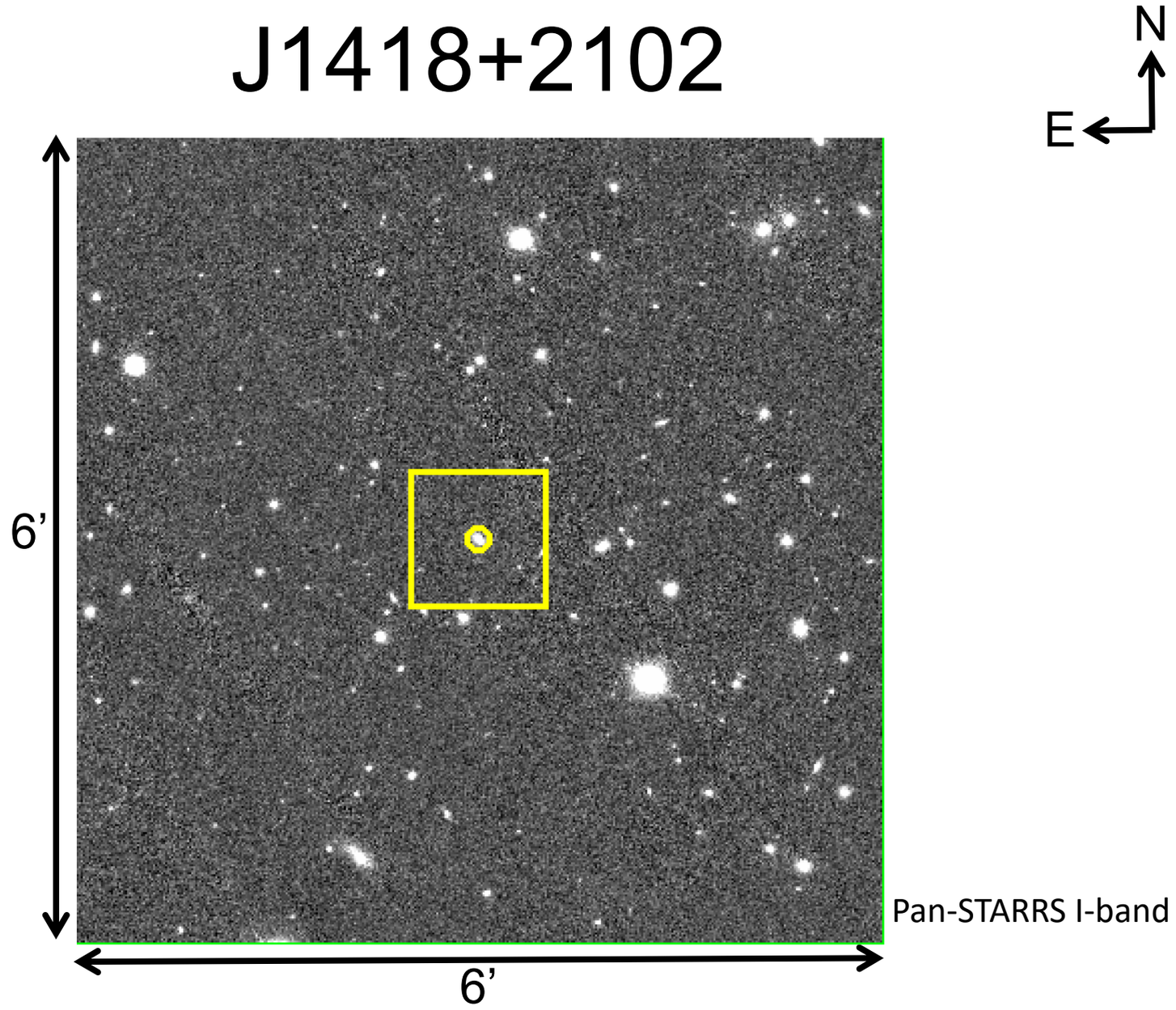



Nak_HSC_3030
N
E
6’
6’
HSC I-band

8 **Nak_HSC_3030 14:52:55.28 02:41:01.31**
star_Nak_HSC_3030 14:52:56.57 02:41:08.98 offset: 19.33” W 7.67” S

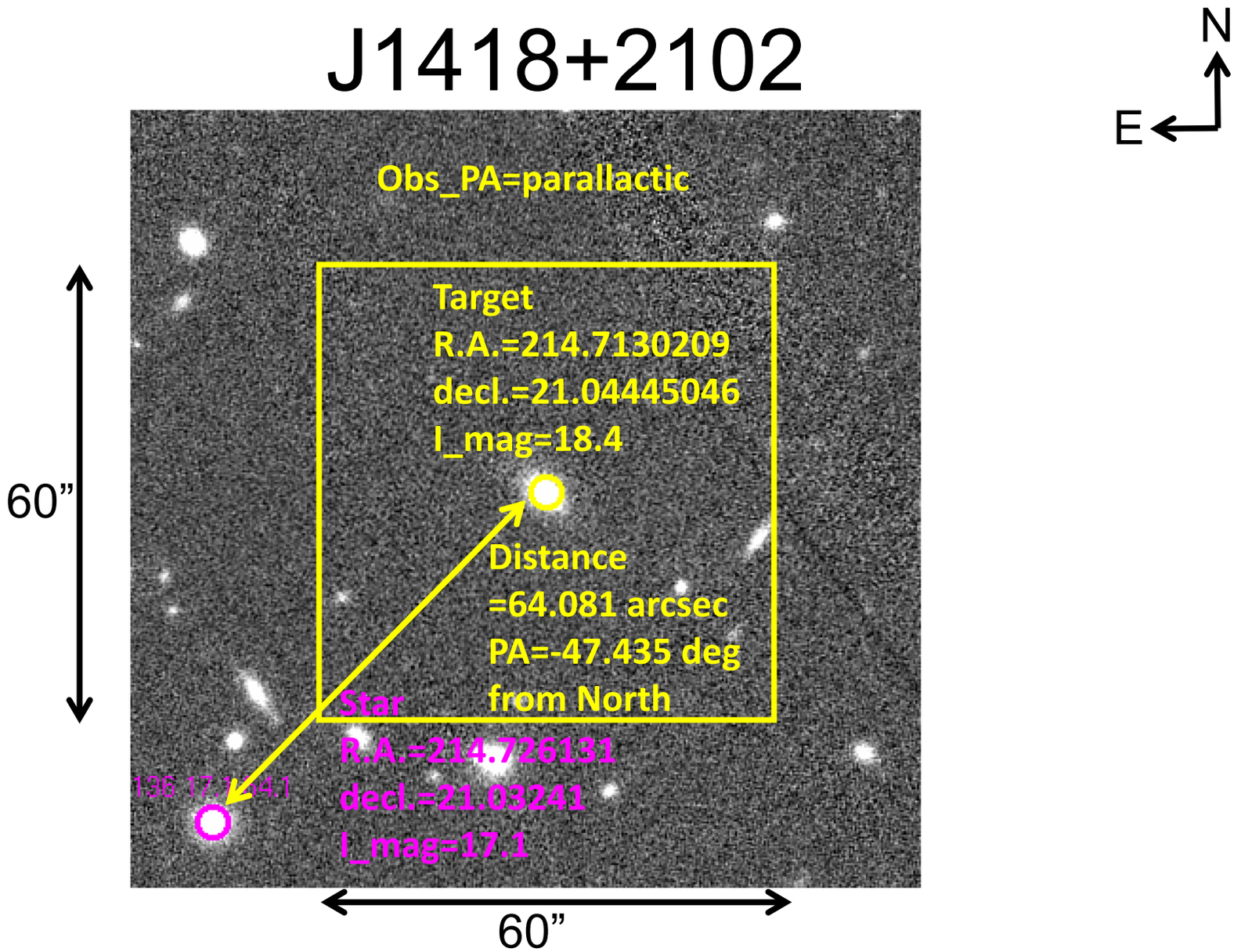


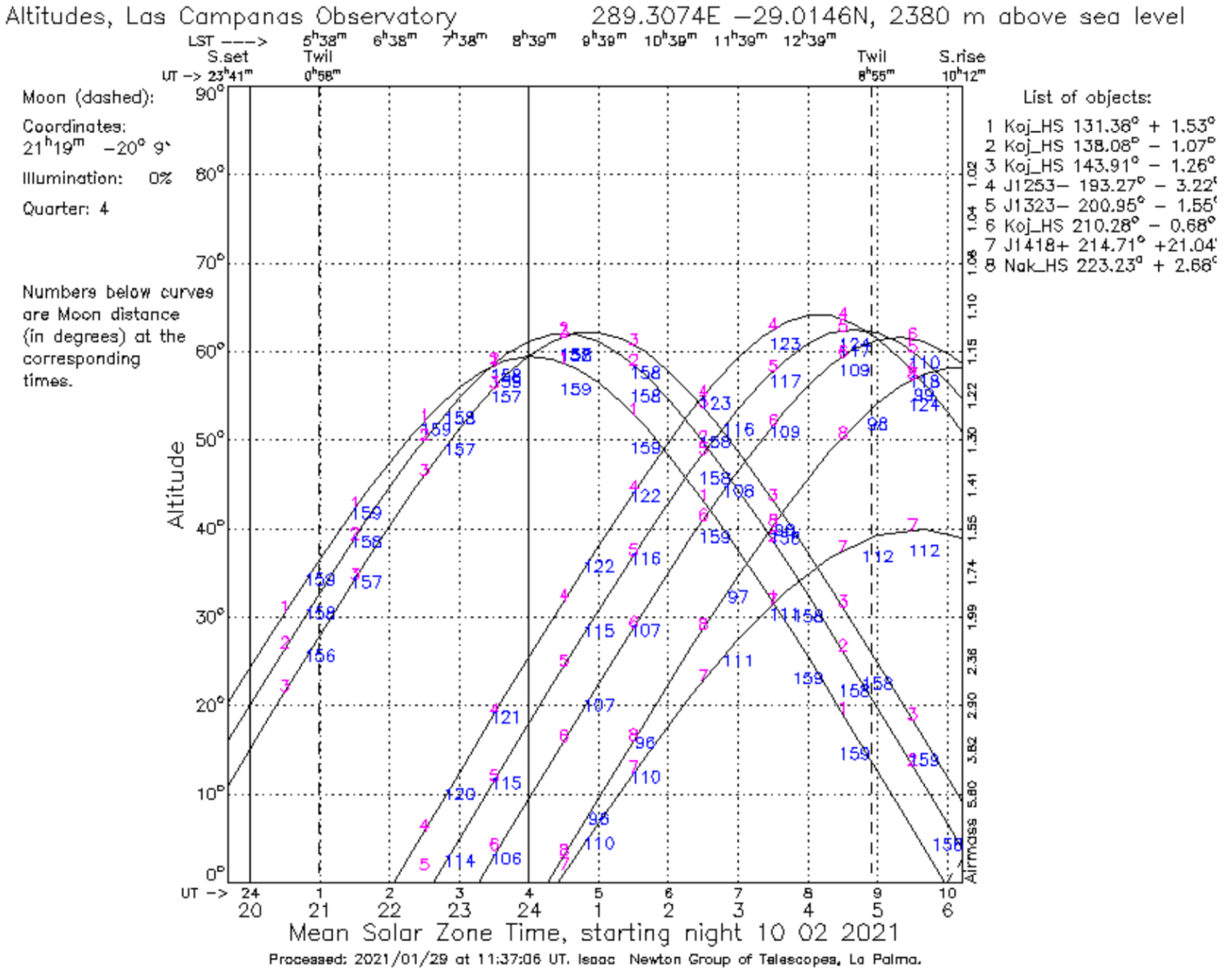
7



7

J1418+2102 14:18:51.13 21:02:40.02
star_J1418+2102 14:18:54.27 21:01:56.68 offset: 43.96” W 43.34” N




Altitudes, Las Campanas Observatory
289.3074E −29.0146N, 2380 m above sea level
LST ---> 5h38m 6h38m 7h38m 8h39m 9h39m 10h38m 11h39m 12h39m
S.set
Twil
Twil
S.rise
UT -> 23h41m
0h58m
8h55m
10h12m
Moon (dashed):
Coordinates:
21h19m −20° 9'
Illumination: 0%
Quarter: 4
Numbers below curves are Moon distance (in degrees) at the corresponding times.
List of objects:
1 Koj_HS 131.38° + 1.53°
2 Koj_HS 138.08° − 1.07°
3 Koj_HS 143.91° − 1.26°
4 J1253− 193.27° − 3.22'
5 J1323− 200.95° − 1.55'
6 Koj_HS 210.28° − 0.68°
7 J1418+ 214.71° +21.04'
8 Nak_HS 223.23° + 2.68°
Altitude
Airmass
UT ->
Mean Solar Zone Time, starting night 10 02 2021
Processed: 2021/01/29 at 11:37:06 UT. Isaac Newton Group of Telescopes, La Palma.