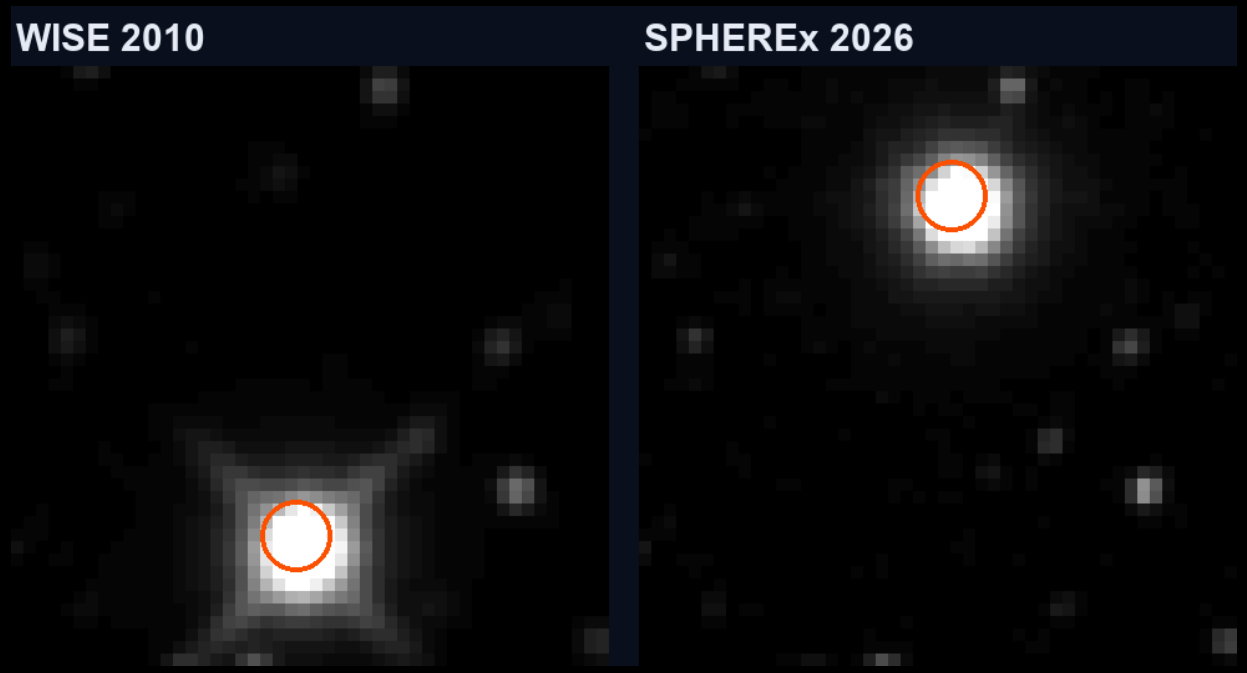
SPOT

The sky looks still. It isn't.

Blink real NASA SPHEREx images of any patch of sky.

https://aithmac.earth

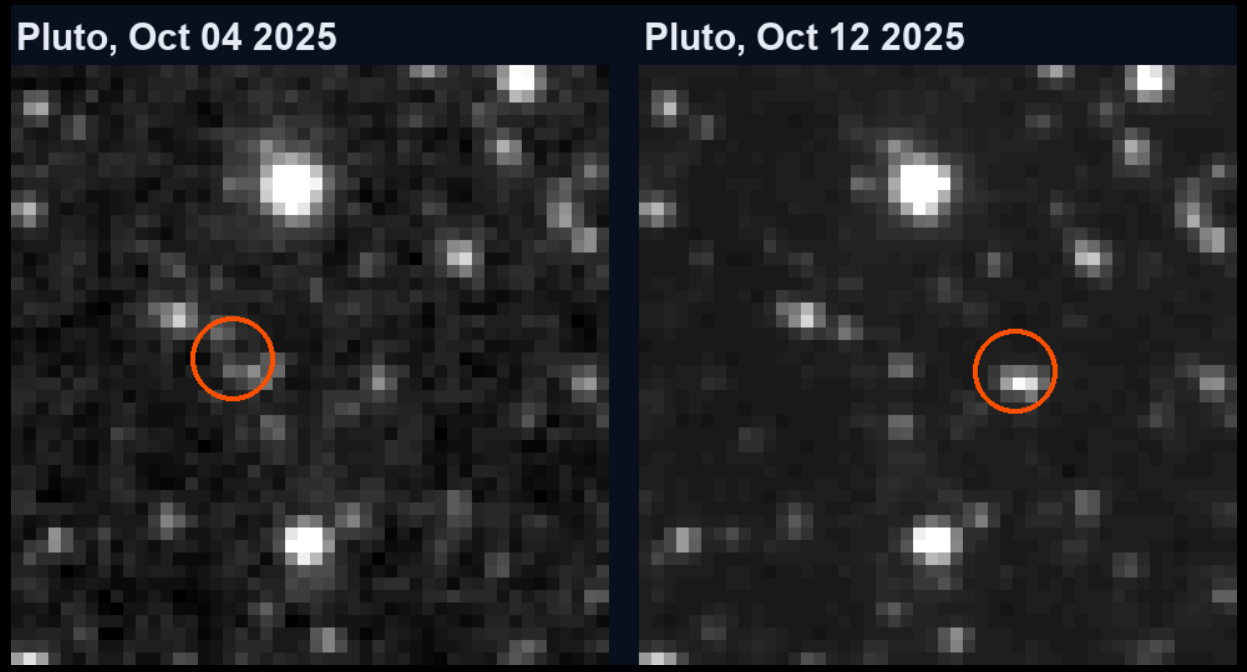
Team AITHMAC · Ali · Baghdad · NASA Space Apps 2026 · Planet X and SPHEREx



Discoveries hide in motion

SPHEREx maps the whole sky every six months in 102 infrared colours.

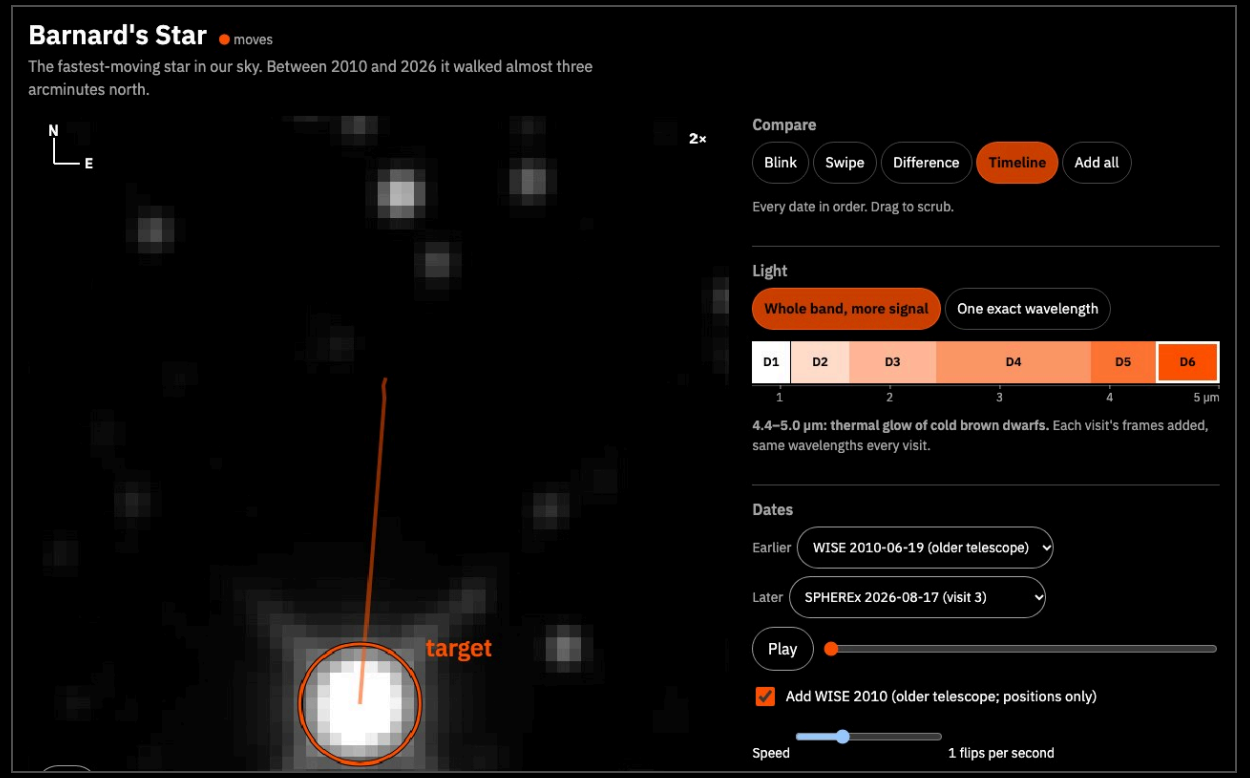
Things that move or change between images are the interesting ones. That is how Pluto was found in 1930.



Any patch, as a little video

Type coordinates. Your browser builds the field live from NASA's public archive copy. No server.

Blink, swipe, subtract, add, play. Zoom, readout, provenance.



Honest by design

Compares only matching wavelengths. Differences show significance, so steady stars stay grey.

Control galaxy: 2 spots in 18 comparisons.

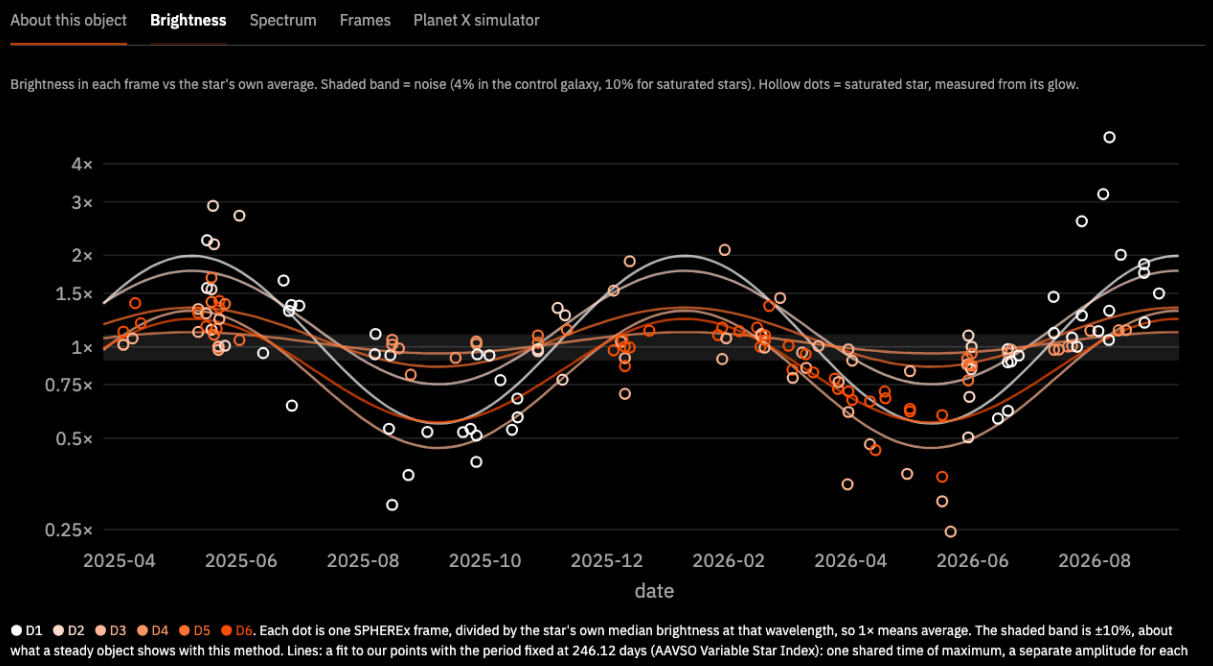


Measured, not just shown

27.1 px: Barnard's Star 2010→2026 (predicted 27.3)

0.35 px: Pluto vs NASA JPL Horizons, median of 8 daily images

15/15 frames traced to the original files

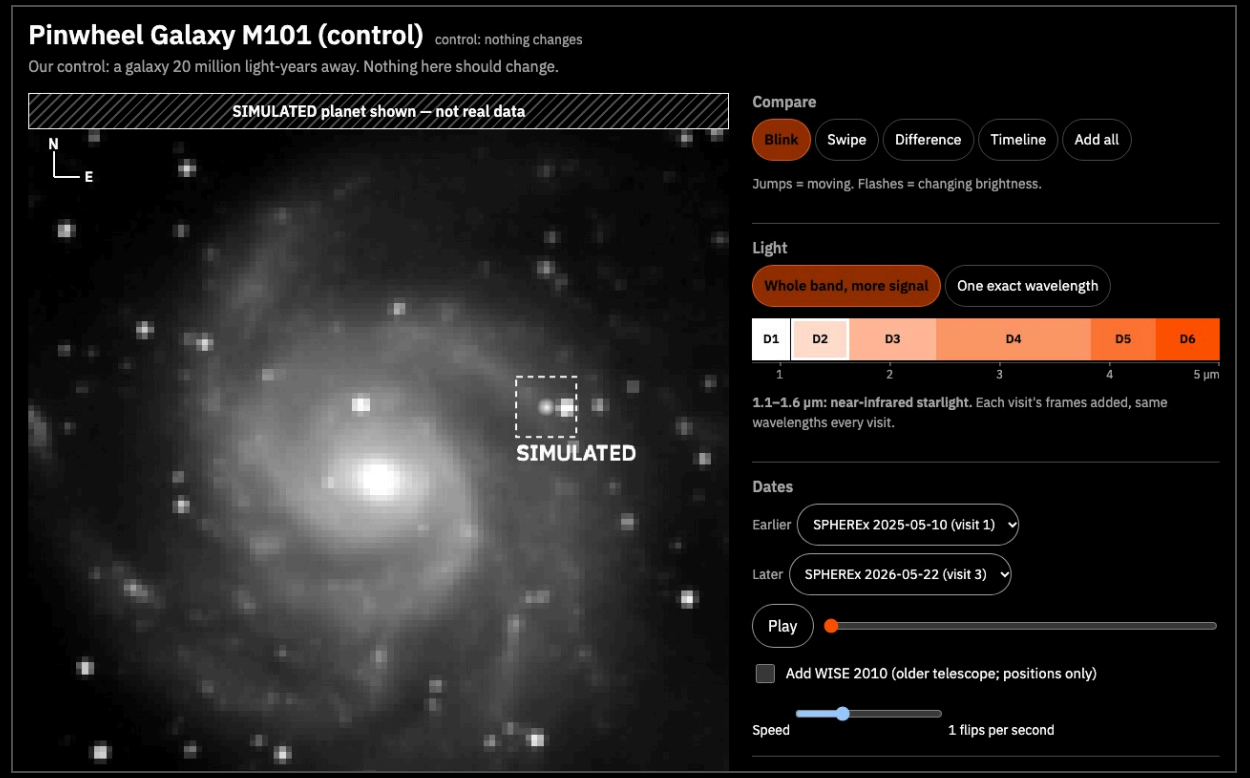


Planet X simulator

SIMULATED

Draws a pretend planet, moving as parallax and orbit would, into real images.

A real Planet Nine is probably too faint for SPHEREx. We say so.



Try it

https://aithmac.earth

Code (MIT): https://github.com/therealbatats/spot

Next: asteroid tracking, Arabic and English classroom mode.

Data: SPHEREx DR1 and QR3 (NASA/IPAC IRSA, DOI 10.26131/IRSA678, 10.26131/IRSA662); AllWISE (NASA/IRSA); Gaia DR3 (ESA, via MAST); JPL Horizons. All images are real telescope data except the labelled simulation.

Prepared with AI assistance.