GSC-II CRA Projects

Data supplied and reported elsewhere.

- Optical Counterparts of ROSAT sources / Pne
  - Mignani ECF
- Systematic studies of selected open clusters
  - Favata ESA
- Halo White Dwarfs in the Solar Vicinity
  - Carollo OATo
- Galactic Kinematics/Structure
  - Spagna OATo
- Proper Motions of ROSAT sources in SFRs
  - Terranegra OAC

Discussed here.

- Variable and Low Mass Star Detection
  - Smart OATo
- Proper Motions of RR Lyrae in the Halo
  - Cacciari OABO
- The Lower MS Luminosity Function
  - Gratton OAPD

Other CRA Proposals

No data, galaxy magnitudes required
– cutouts

- Photometric Cat of Nearby Galaxy Clusters
  - Cappi OABO
- Studies of ENACS galaxy clusters
  - Antonuccio OACT

No data, requires all sky or galactic plane proper motions
– larger effort

- Detection of Halo Streaming/Saggitarus
  - Drimmel OATo
- Studies of disk-population coeval samples
  - Sciortino OAPA

Data supplied but no response
– more follow up

- Magnitudes of Radio & X-ray Emitters
  - Della Ceca OAM
- Statistical studies of Galaxy Groups
  - Ramella OATS

The Lower MS Luminosity Function
Gratton OAPD

- M dwarf selection

  In XI/XP & XJ plates

  Proper motions > .04"/yr

  J-F > 1.5

  Error in PMs < .01"/yr

- Goal 1000 sq degrees, procedure reasonably automatic

One meeting in March between Smart/Spagna/Gratton, still finalizing the selection process but almost finshed.

Variable and Low Mass Star Detection
Smart OATo

Low mass Star search L-Dwarf

- F-I > 1.5
- J-F $> 3.$
- Proper motions $> 0.4''/\mathrm{yr}$
- $20.5 < \mathrm{F} < 15$

Once candidates found requires the use of spectra to confirm identification.

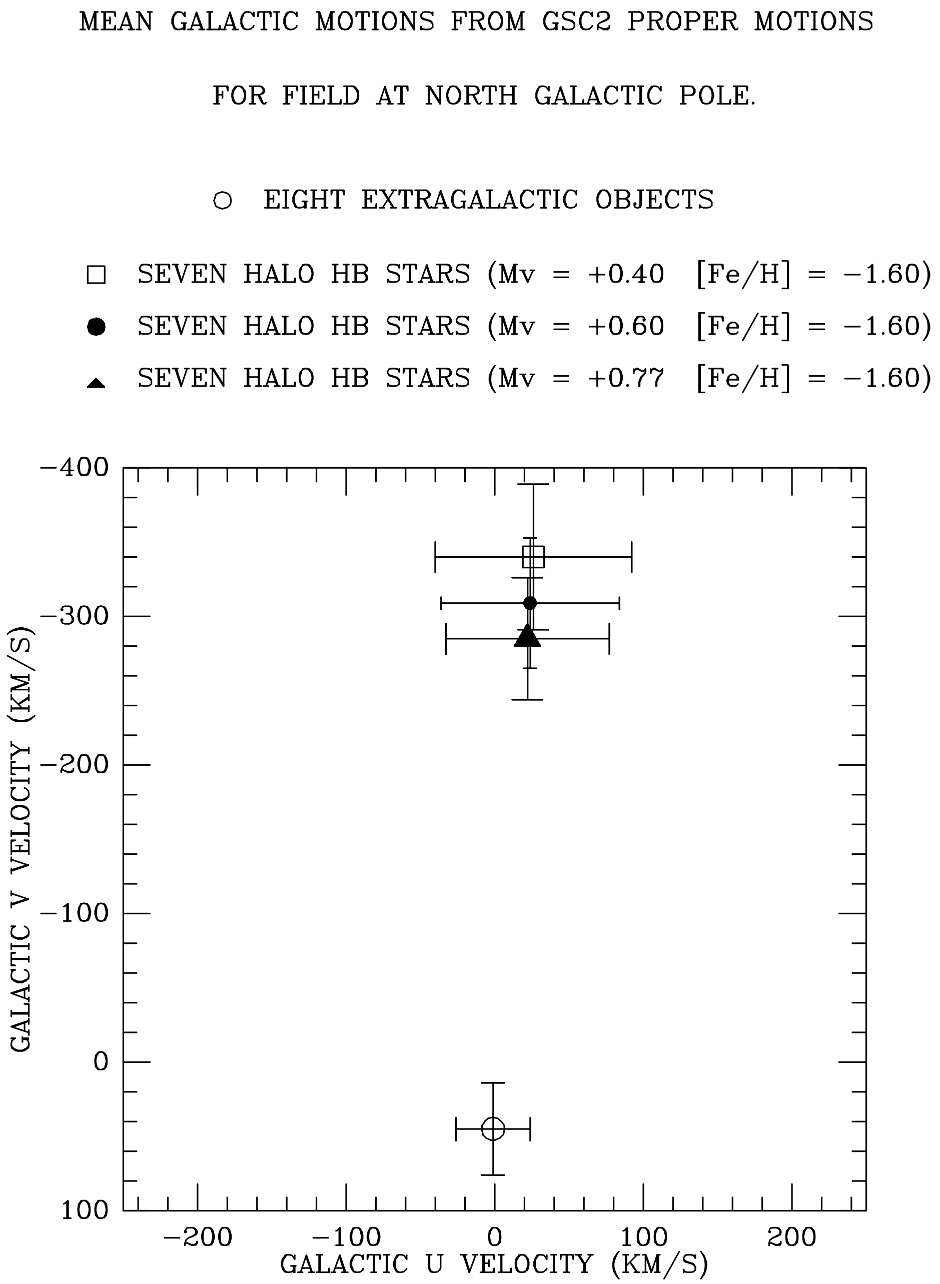

Figure 1: The motion of the Halo using GSCII proper motions in conjunction with different distance indicators.Cacciari OABO

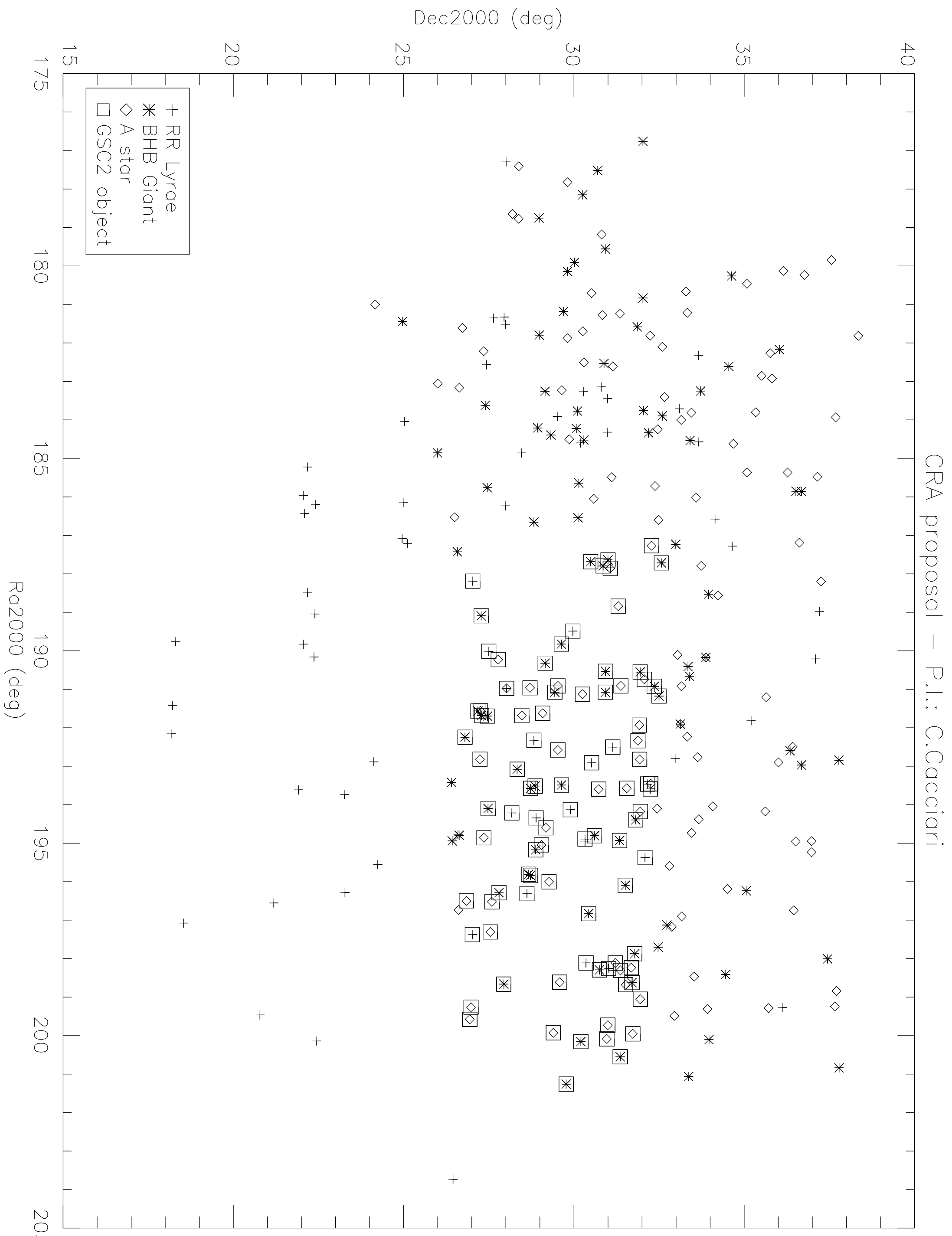

Figure 2: New targets found in the NGP. Cacciari OABO

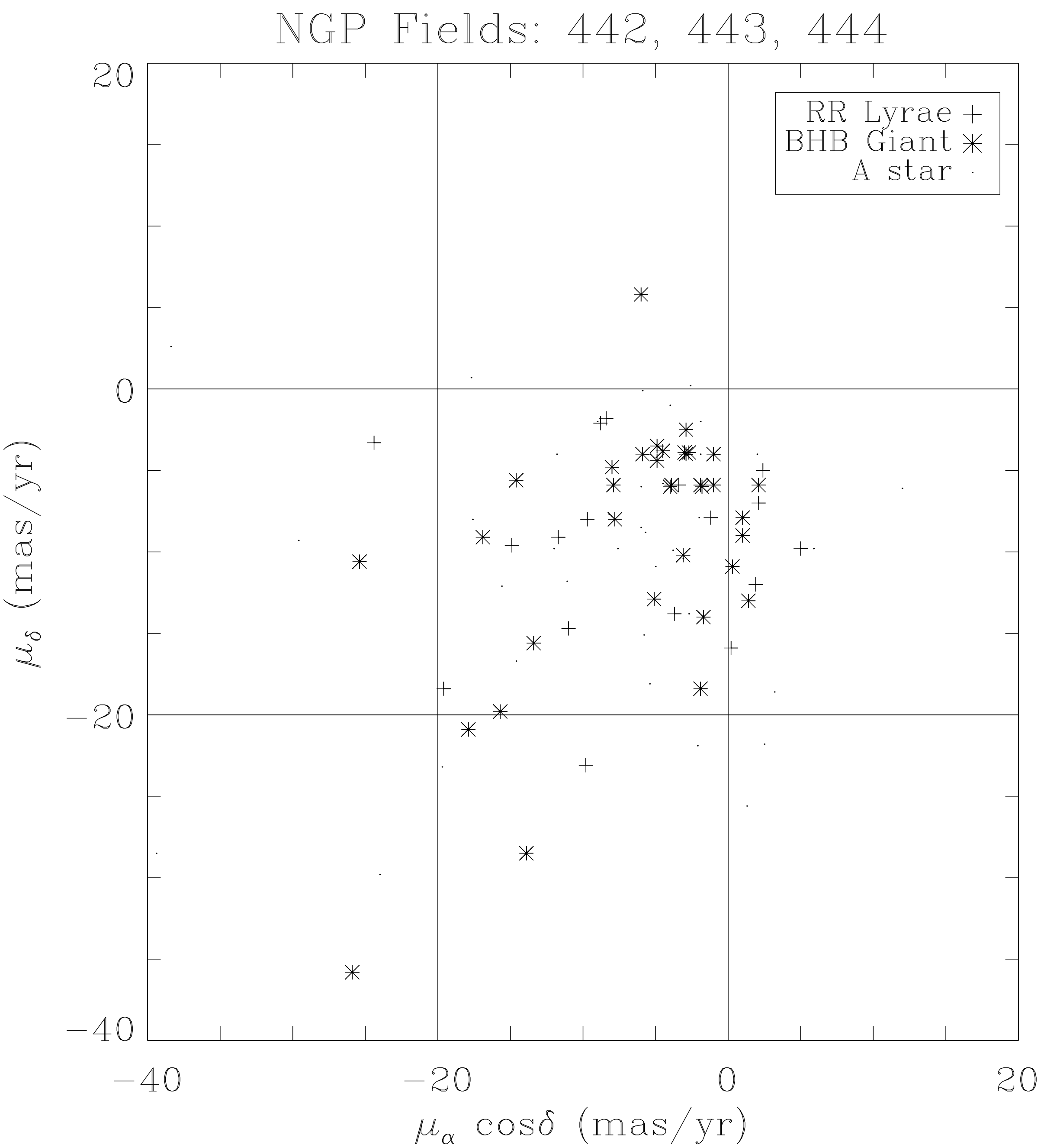

Figure 3: The absolute proper motion of the new targets Cacciari OABO

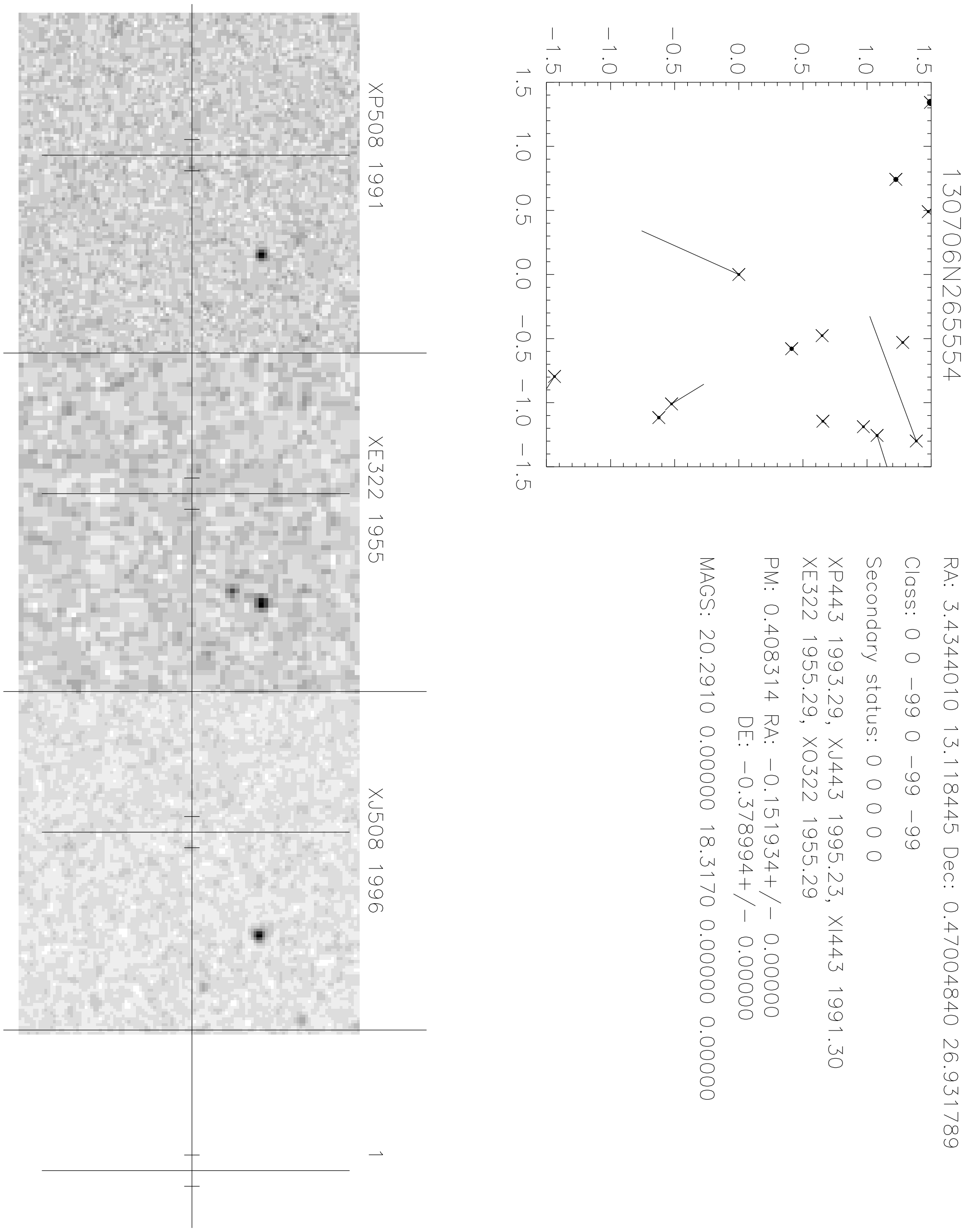

Figure 4: Candidate L-Dwarf star.

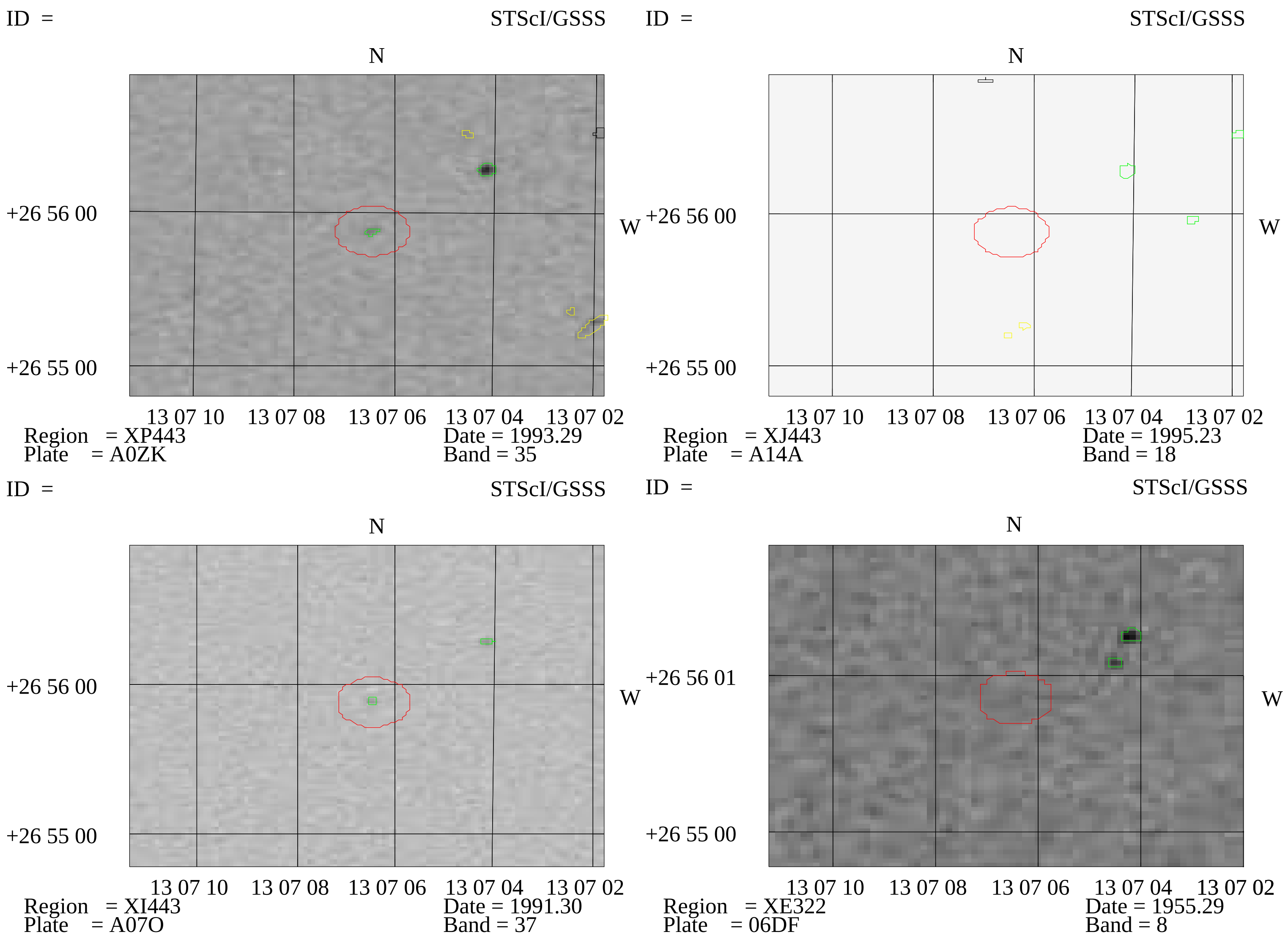

Figure 5: Candidate L-Dwarf star.