

Marking scheme:

Student who has the highest number of stars identified (N_m) =	60%
Other students who get N stars =	$N*0.60/N_m$
Estimation of the limiting magnitude =	0 – 20%
($\Delta < 1$ mag : full mark, $1 < \Delta < 2$ mag half mark, $\Delta > 3$ mag : 0)	
Good image quality (unsaturated, not under expose)	20%

TOTAL MARK = 100

Selected region : M7 ($\alpha=17^h53.^m3$, $\delta= -34^\circ46.'2$)

Central equatorial coordinates : $\alpha=17^h54^m22.3^s$, $\delta= -34^\circ47'15''$

Figure 1

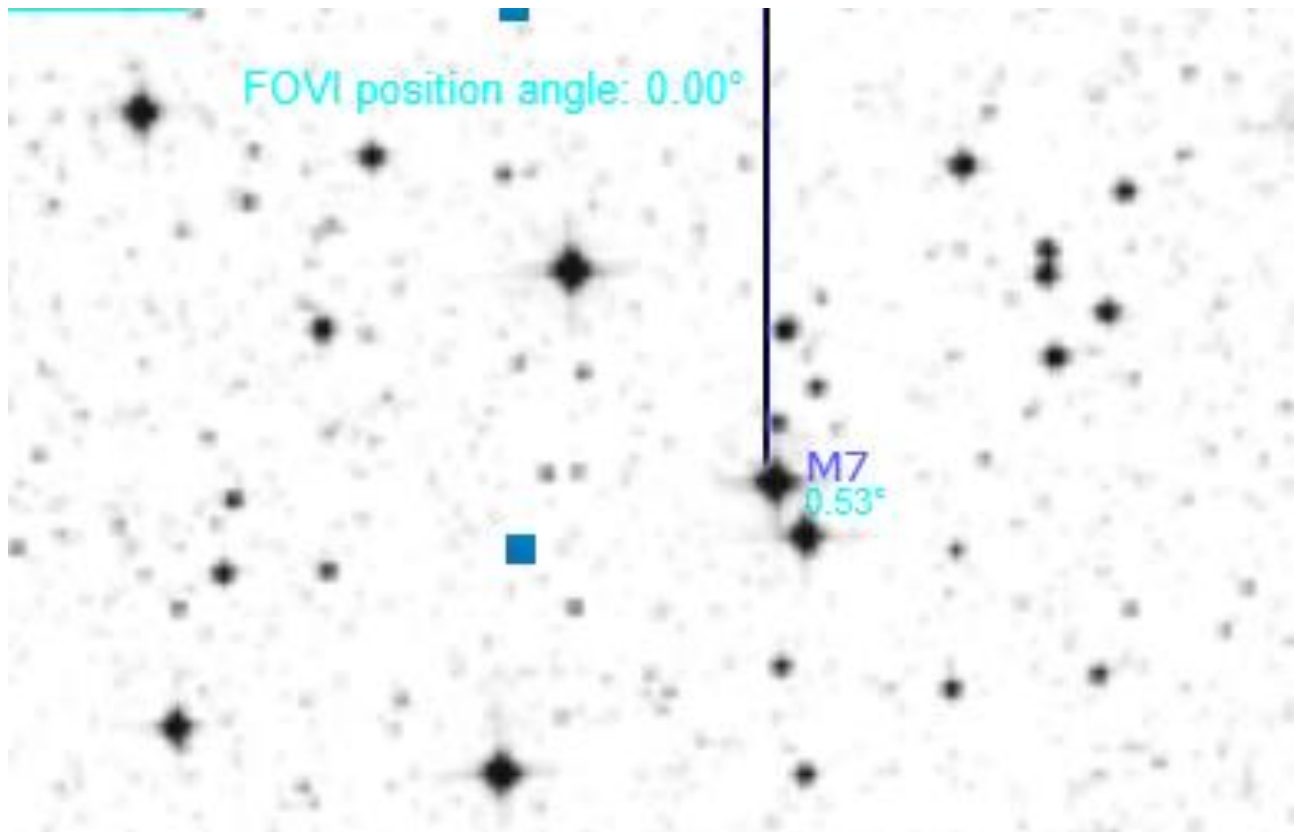
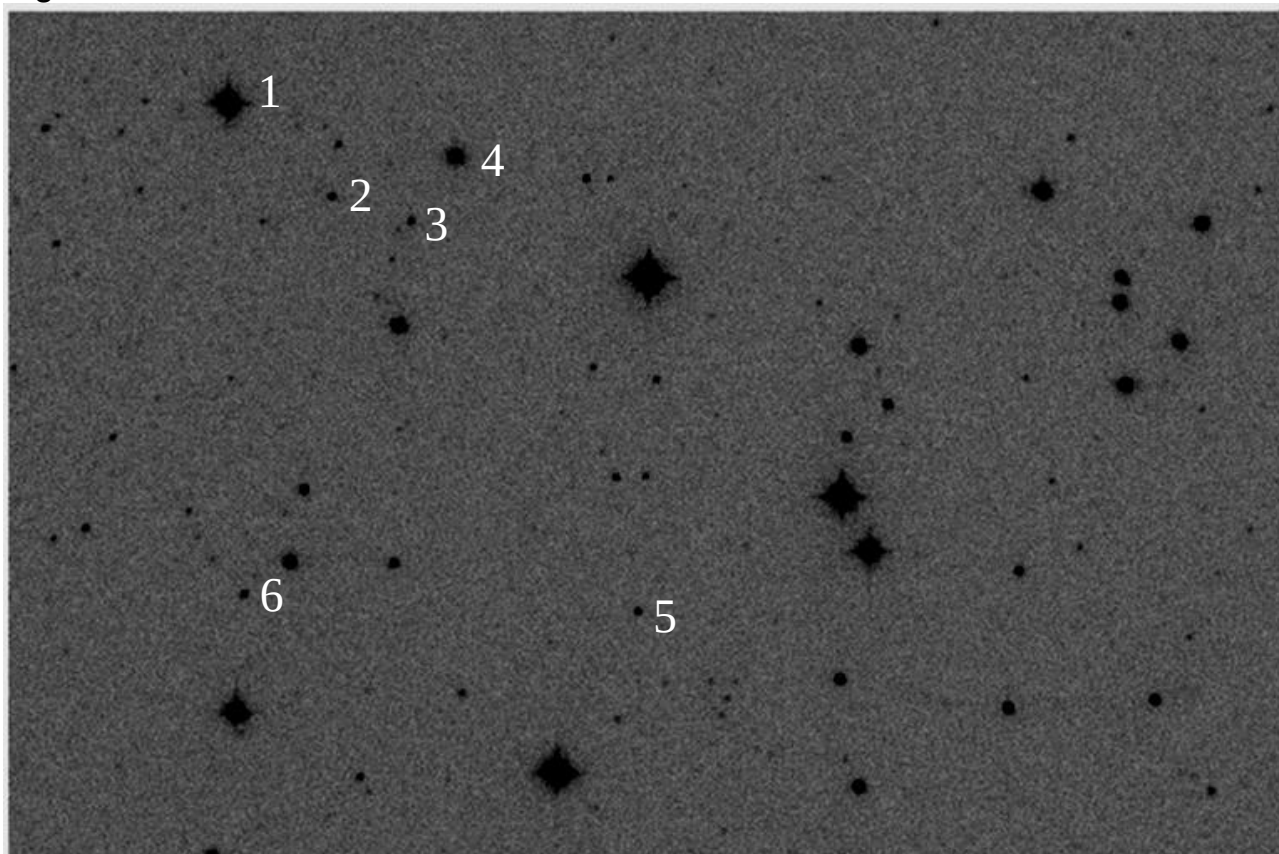


Figure 2



Exposure time: 5 sec



Country and Student codes:

[illegible]

Limiting magnitude of the photograph is

Selected region : M8 ($\alpha=18^h04.^m2$, $\delta=-24^\circ22.'1$)

Central equatorial coordinates : $\alpha=18^h04^m51^s.2$; $\delta=-24^\circ23'04''$

Figure 1

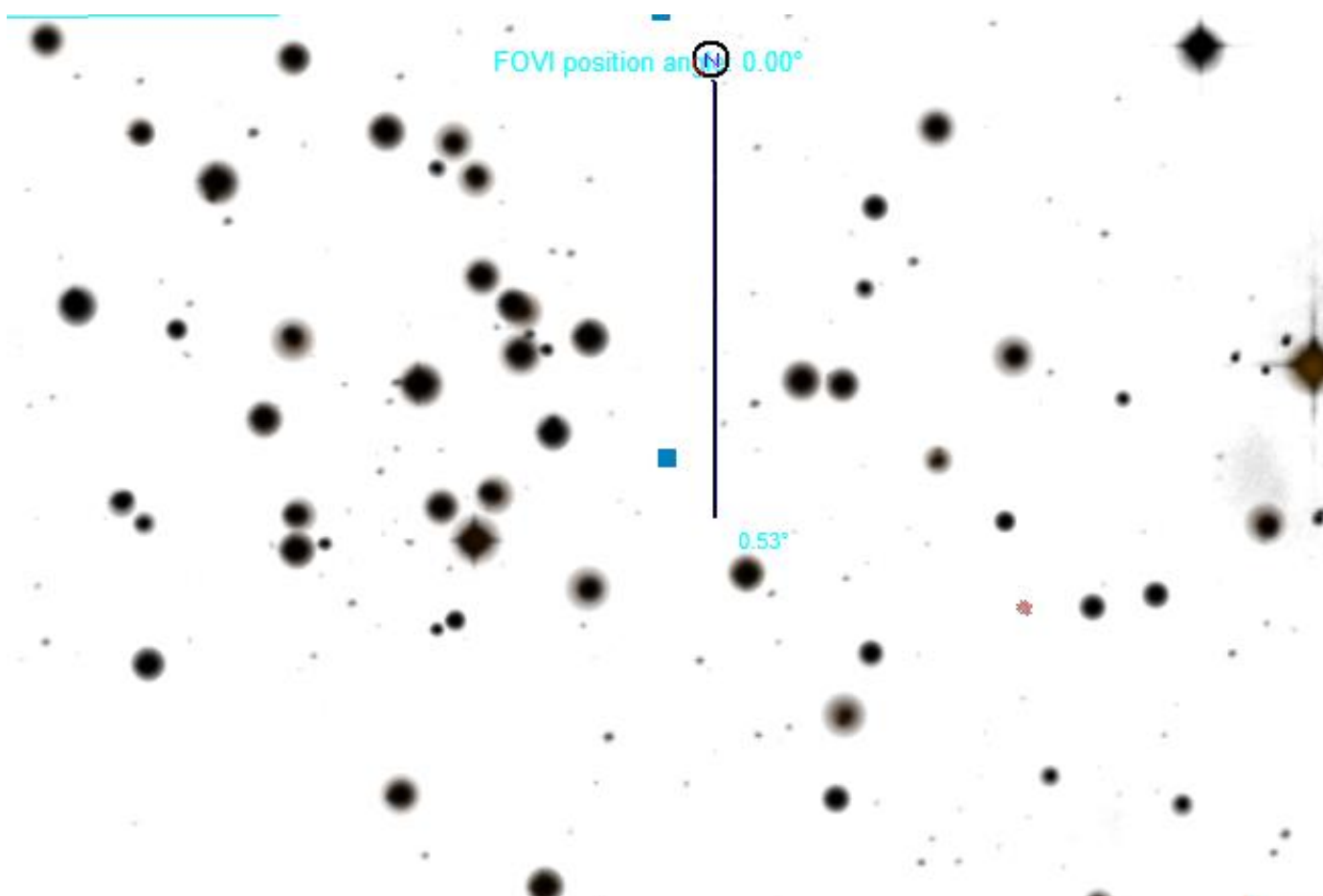
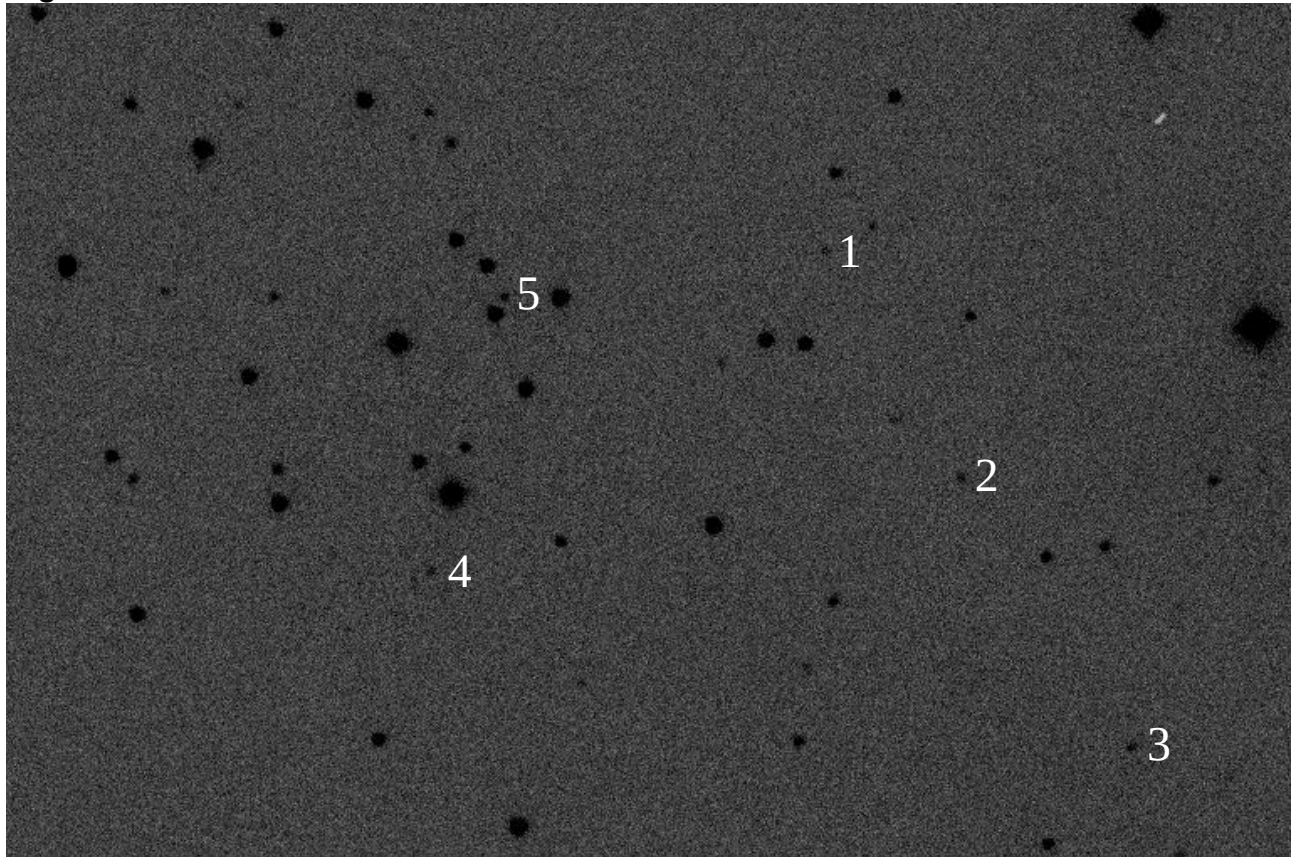


Figure 2



Exposure time: 10 sec



Country and Student codes:

[illegible]

Limiting magnitude of the photograph is

Selected region : M20 ($\alpha=18^h02.^m4$, $\delta=-22^\circ58'.7$)

Central equatorial coordinates : $\alpha=18^h02^m56^s.7$, $\delta=-23^\circ01'56''$

Figure 1

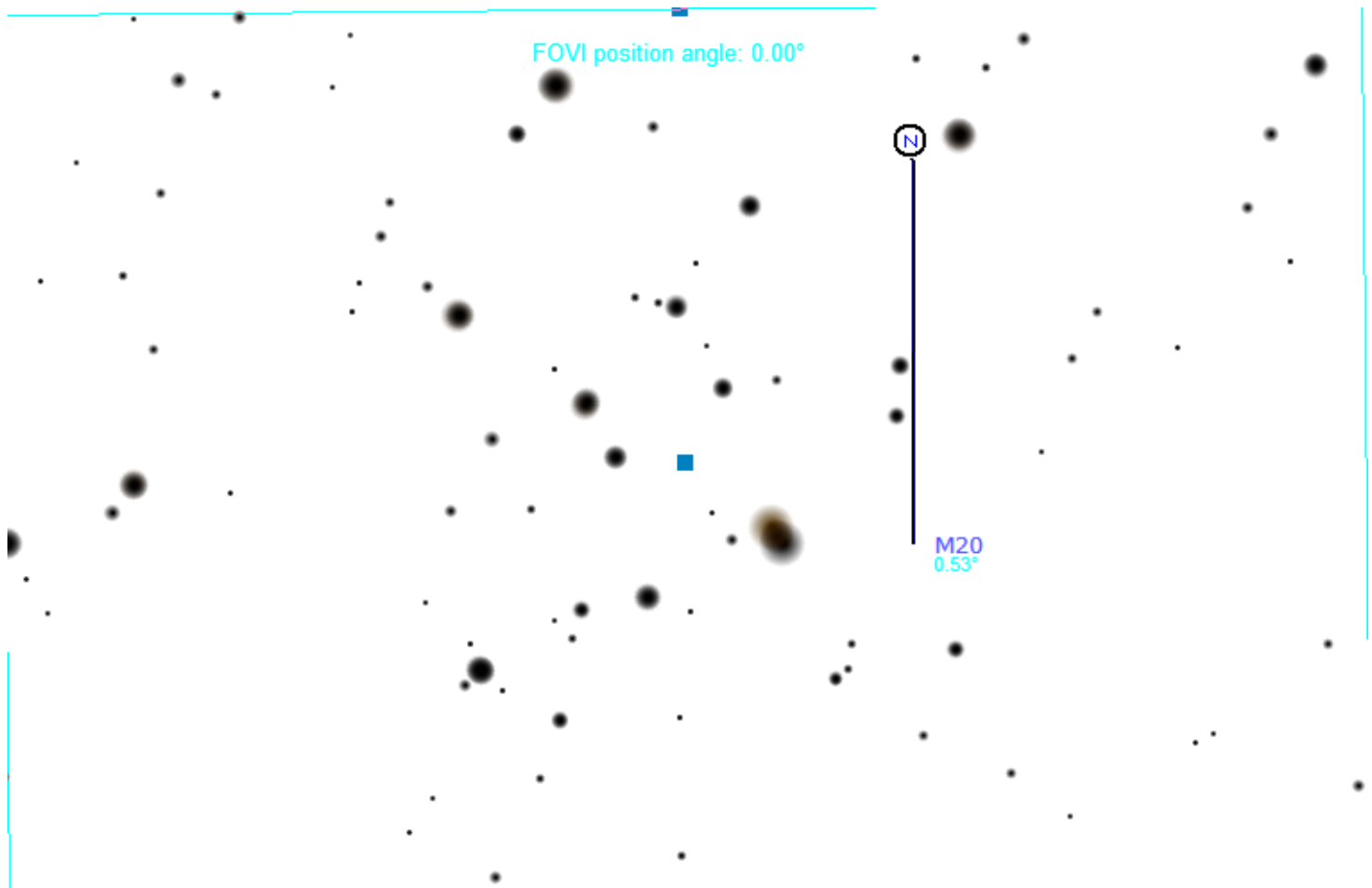
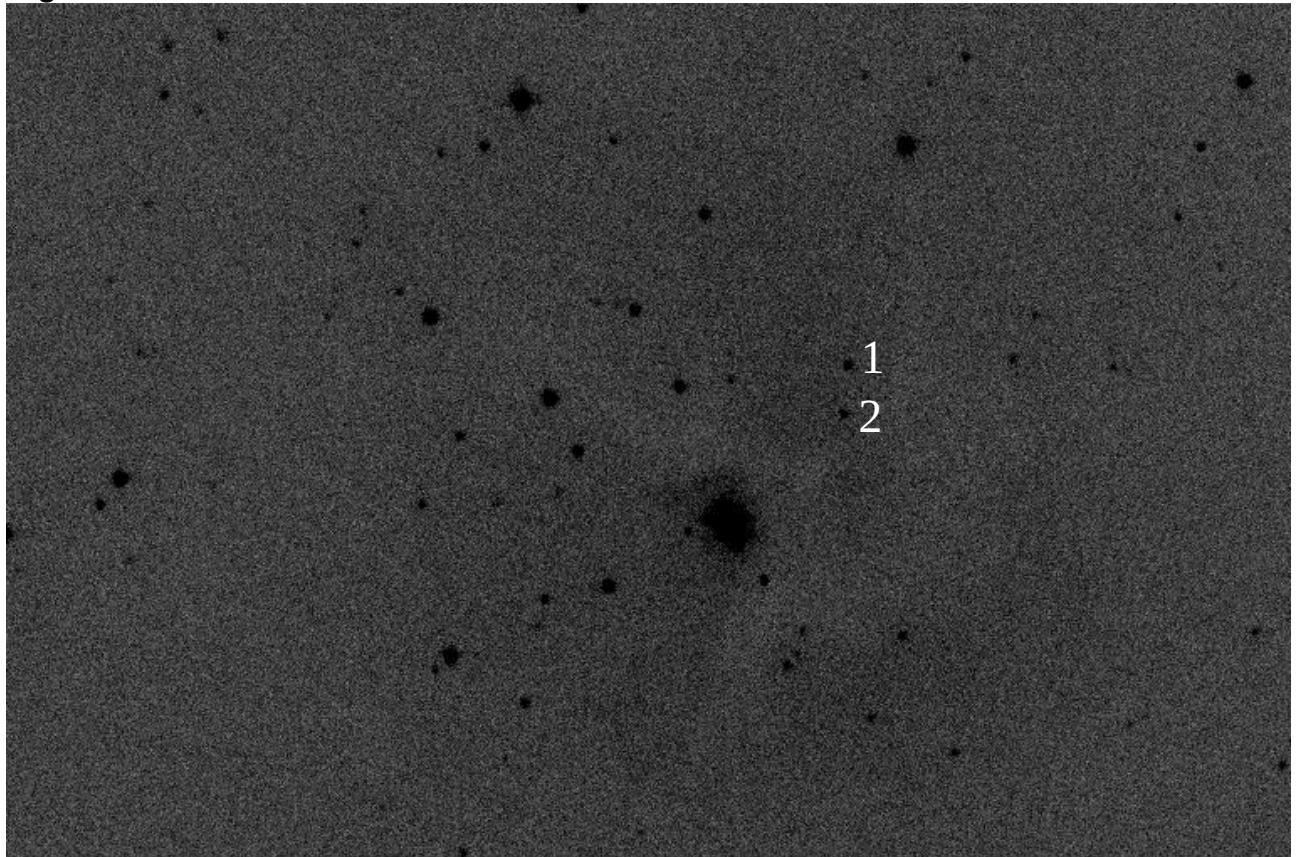


Figure 2



Exposure time: 10 sec



Country and Student codes:

[illegible]

Limiting magnitude of the photograph is

Selected region : M21 ($\alpha=18^h04.^m2$, $\delta=-22^\circ29'.5$)

Central equatorial coordinates : $\alpha=18^h04^m46^s.3$, $\delta=-22^\circ29'27''$

Figure 1

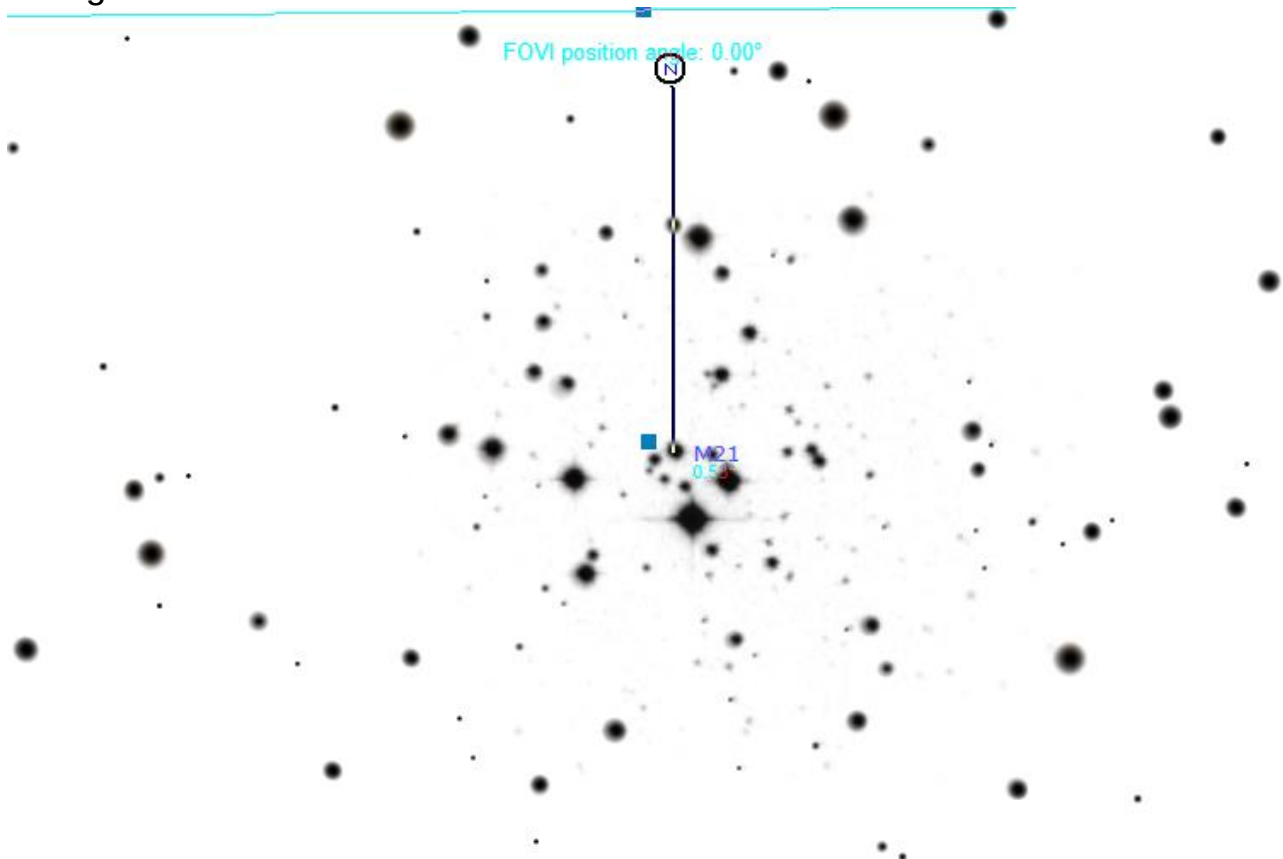
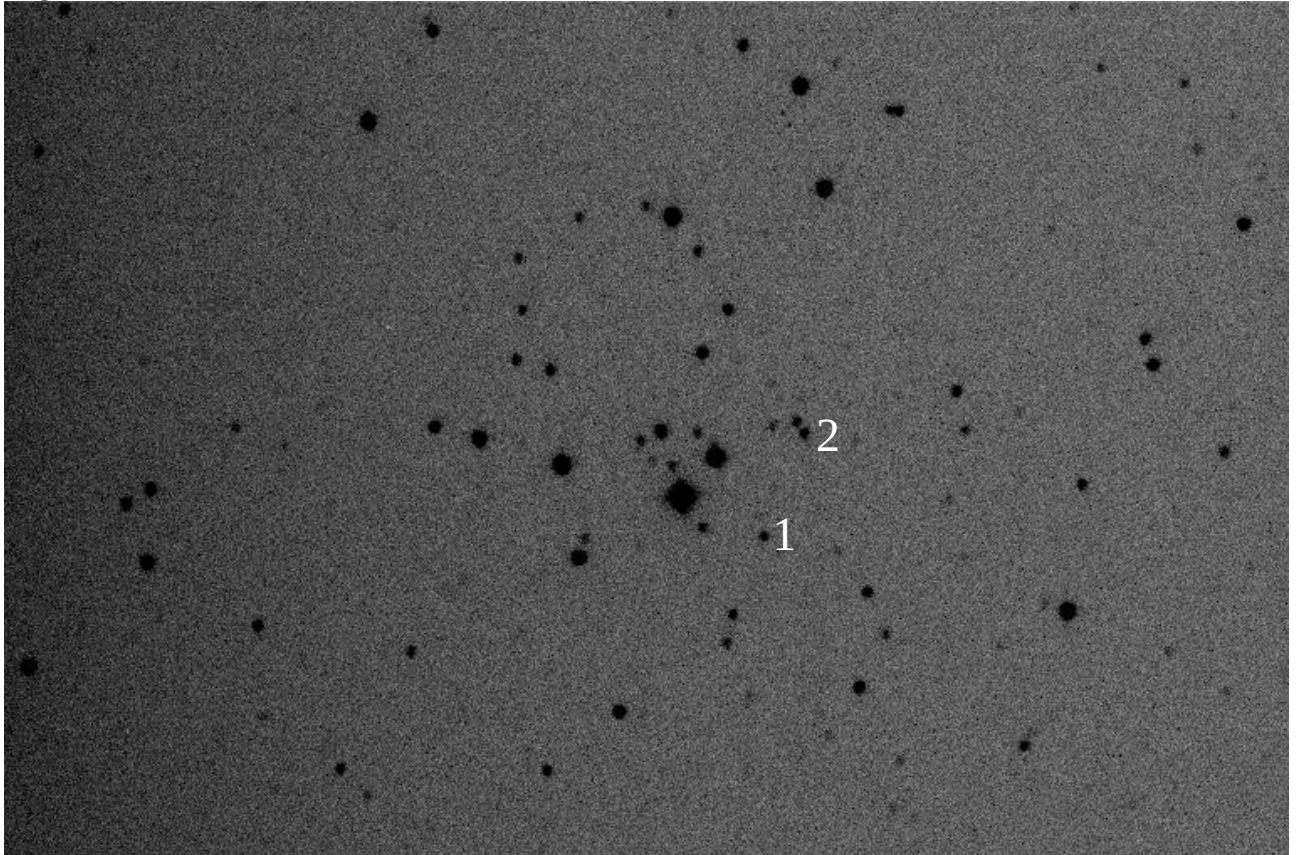


Figure 2



Exposure time: 10 sec



Country and Student codes:

[illegible]

Limiting magnitude of the photograph is

Selected region : M23 ($\alpha=17^h57.^m0$, $\delta=-18^\circ59.'4$)

Central equatorial coordinates : $\alpha=17^h57^m32^s.1$, $\delta=-19^\circ01'08''$

Figure 1

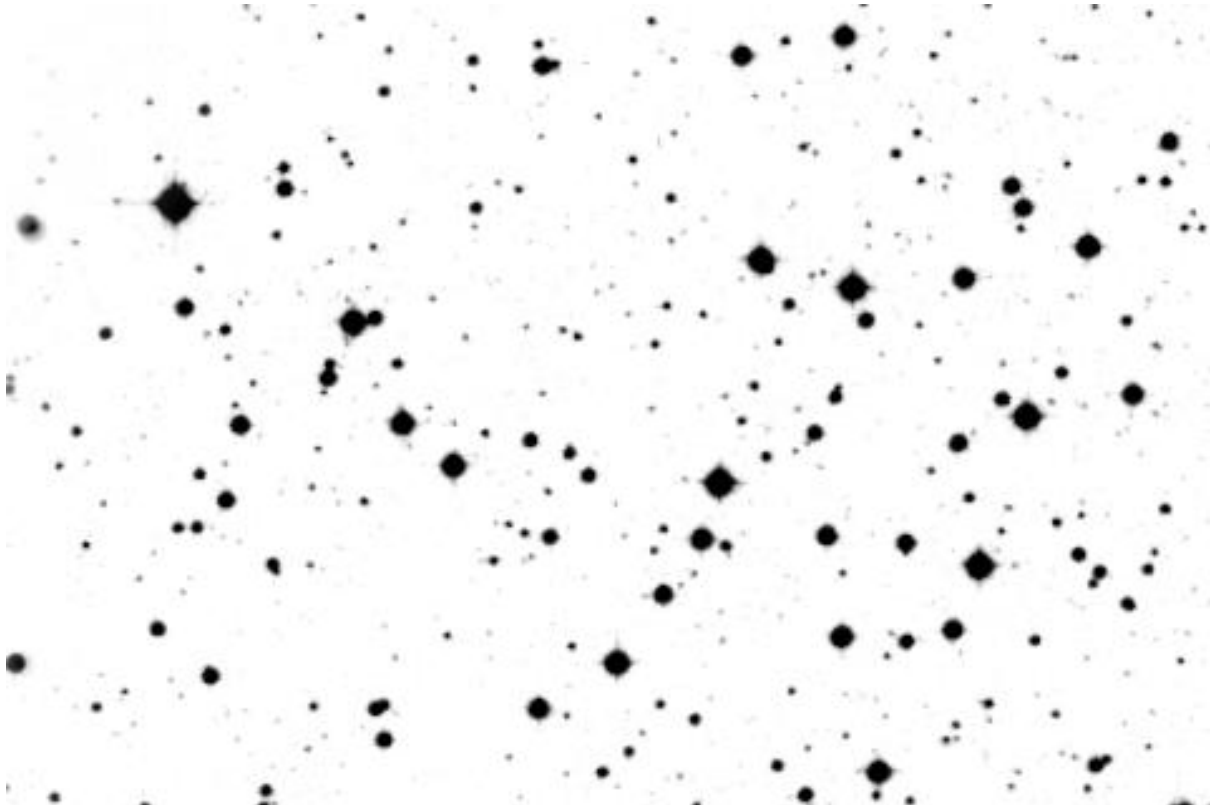
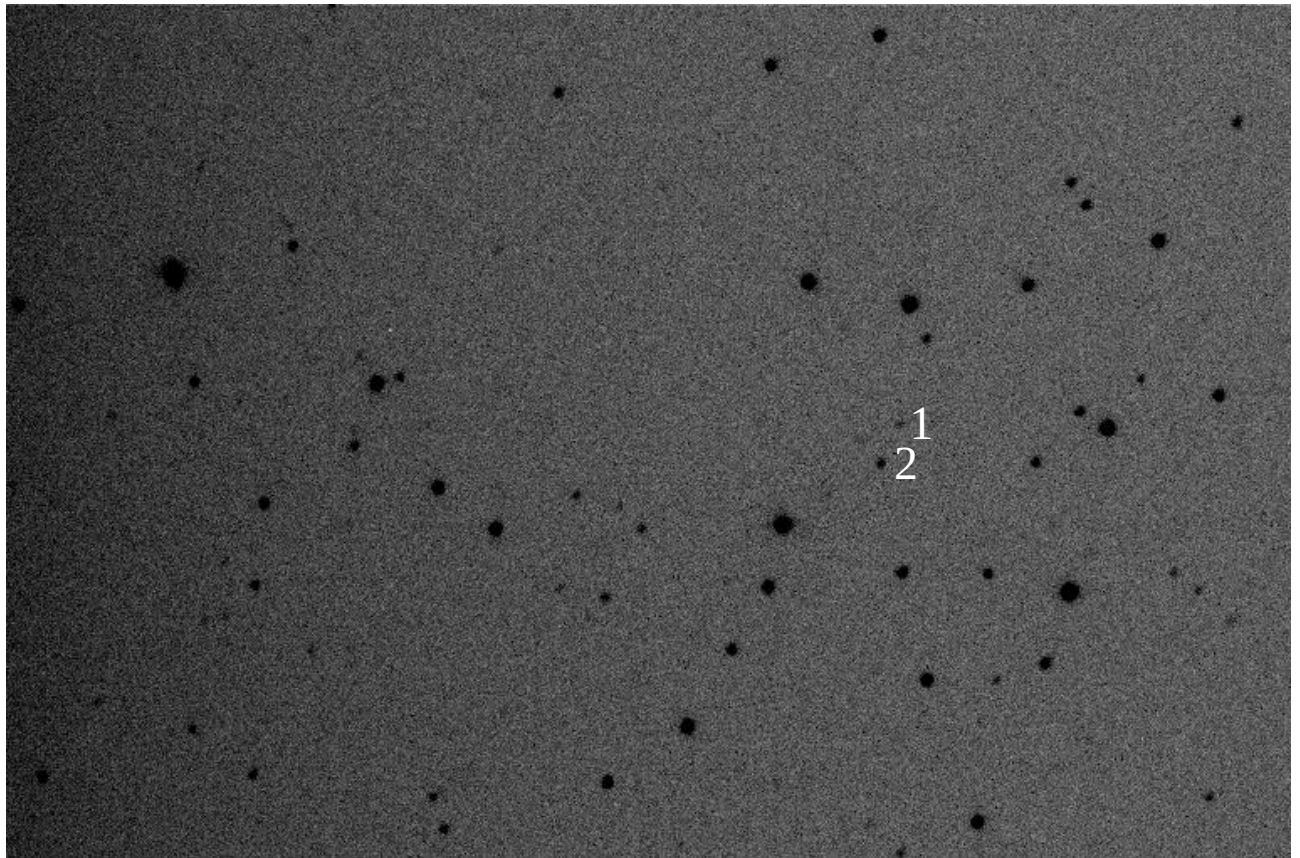


Figure 2



Exposure time: 10 sec



2nd
International
Olympiad
on Astronomy
and Astrophysics

**Answer Page
Identification**

Country and Student codes:

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Number	Names or Catalogue number	R.A.	Declination	Magnitude
1	GSC 6258:809	17h 56m 58s	-18°58'21"	13.2
2	GSC 6258:825	17h 56m 59s	-18°58'43"	12.5