

## Microensing Search for Exoplanets

A few more targets available this week but note that the Northern Hemisphere targets are only visible for a short period just before astronomical twilight begins

### Advice to imagers

Frequency of observations; every 2 -3 hours would be ideal

To obtain the best approximation to Gaia magnitudes;

1) Use a Sloan r' filter

or

2) Use a Cousins R filter but ensure target is above 20 degrees altitude

or

3) If imaging unfiltered ensure target is above 45 degrees altitude and

4) Use Gaia DR2 data for obtaining magnitudes of comparison stars -

<https://www.cosmos.esa.int/web/gaia/data-release-2>

If using Astrometrica select;

1) Filter r', R (Cousins) or Clear/None depending on filter used

2) Color Band G

3) Star Catalog Gaia DR2

### Current alerts

#### Gaia21fkl

Region; Southern Hemisphere

RA 07:46:28.4 Dec -21:52:32

Quiescent (Gaia) magnitude; 15.8

Gaia alerts link (includes data and finder chart)

<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia21fkl/>

#### Gaia22aas

Region; Southern Hemisphere

RA 08:46:11.1 Dec -47:28:14

Quiescent (Gaia) magnitude; 13.6

Gaia alerts link (includes data and finder chart)

<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22aas/>

#### Gaia22akp

Region; Southern Hemisphere

RA 11:36:02.4 Dec -57:42:06

Quiescent (Gaia) magnitude; 16.6

Gaia alerts link (includes data and finder chart)

<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22akp/>

#### Gaia22akz

Region; Southern Hemisphere

RA 10:37:12.0 De -58:28:43

Quiescent (Gaia) magnitude; 16.6  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22akz/>

### **Gaia22ang**

Region; Northern Hemisphere  
RA 20:49:10.3 Dec 44:32:47  
Quiescent (Gaia) magnitude; 15.2  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22ang/>

### **Gaia22ara**

Region; Northern Hemisphere  
RA 19:50:05.8 Dec 29:24:28  
Quiescent (Gaia) magnitude; 17.2  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22ara/>

### **Gaia22atd**

Region; Northern Hemisphere  
RA 19:11:04.5 Dec 10:36:32  
Quiescent (Gaia) magnitude; 15.3  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia22atd/>

### **Please send observations to Roger Dymock. Data required;**

Observing site  
Observer, name  
Photometric software  
Photometric Catalogue used  
Catalogue magnitude band  
Date and time (JD) e.g., 59403.391447  
Target e.g., Gaia21bfr  
Filter used  
Magnitude  
Error

Data from [BHTOM](#) and [Gaia Photometric Alerts](#) websites

Alerts can also be viewed at <https://britastro.org/node/25935>