

## **Microlensing Search for Exoplanets**

### **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**

**There are currently no Northern Hemisphere targets**

#### **Gaia21ctx**

Region; Southern Hemisphere  
RA 12:11:52.2 Dec -62:23:27  
Quiescent (Gaia) magnitude; 17.8  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia21ctx/>

#### **Gaia21ehk**

Region; Southern hemisphere  
RA 14:47:38.1 Dec -61:36:45  
Quiescent (Gaia) magnitude; 17.7  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia21ehk/>

#### **Gaia21feu**

Region; Southern Hemisphere  
RA 13:25:49.0 Dec -65:19:31  
Quiescent (Gaia) magnitude; 18.0  
Gaia alerts link (includes data and finder chart)  
<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia21feu/>

**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/>

**Gaia21fio**

Region; Southern Hemisphere

RA 11:34:9.8 Dec -65:27:43

Quiescent (Gaia) magnitude; 18.1

Gaia alerts link (includes data and finder chart)

<http://gsaweb.ast.cam.ac.uk/alerts/alert/Gaia21fio/>

**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>