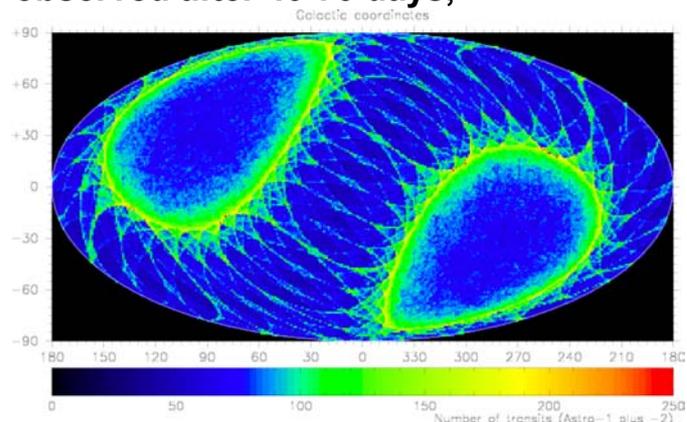


Gaia data



- **G-flux observations, 8-9 measurements separated by 4.4s (per-CCD)**
- **2 telescopes, two subsequent observations of an object, separated by 106 minutes.**
- **Next scan comes after 6h after the first (4.5h after the last observation), so there may be another set of two fields of view observations, unless the satellite precesses enough to move to another bit of the sky.**
- **Then, the same object may be observed after 40-70 days, depending on the location**



David Barrado

Gaia science alerts, small and robotic telescopes, time domain astronomy



AstroNet science priorities. This is Gaia science (transients) Time Domain Astronomy. Science Alerts will start in early 2014.

The key feature of transient/alert/time domain astronomy is use of small telescopes, typically <2m, in rapid response mode, and dedicated observing mode. The challenge is coordinating, organisation, and data transfer and archiving.

Two major international meetings have been held by the Gaia Alerts team in the last two years to prepare for the opportunity. There is a substantial resource, and substantial interest, yet no coherent structure or long-term science programme in place.

There are some organised communities in place - the Gaia community is forming; HELAS remains from an FP6 project.

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- Network initiative coordinating small (<2.5m) telescope use for Gaia transients and multi-telescope campaign astronomy.
- Organization to be discussed with robotic telescope directors and Gaia alert scientist.
- L. Wyrzykowski & I. Steele
- Based on the Palomar Transient Factory (PTF) is a fully-automated, wide-field survey aimed at a systematic exploration of the optical transient sky.

Existen un número significativo de telescopios de este tamaño en España
Este uso podría garantizar su supervivencia y efectividad

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3

Programas del 1.23m



1.23m Telescope

The 1.23m telescope is now operated completely via remote control. The robotization of the telescope (in-kind contribution from one of the users of the telescope) makes good progress. The list of current users is given below. MoUs are signed between CAHA and all the groups exploiting the telescope.

PI	Institute	Science	Nights/Year	Constraints
Afonso	MPIA	Transits	43	Dark/grey/bright
Fernandez	IAA	YSOs	60	2 contiguous blocks of 30 nights
Gorosabel	IAA	GRBs	13	Target of opportunity
Mottola	DLR	Asteroids	100	Dark/grey/bright
Ortiz	IAA	TNOs	42	Bright
RECTA		Public Outreach	55	Dark/grey
Total			313	

Comprometido hasta mediados 2013

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