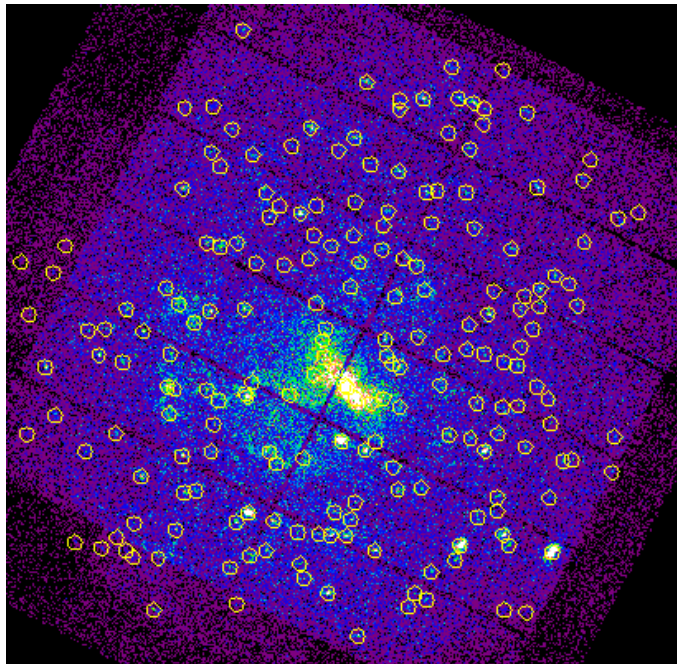


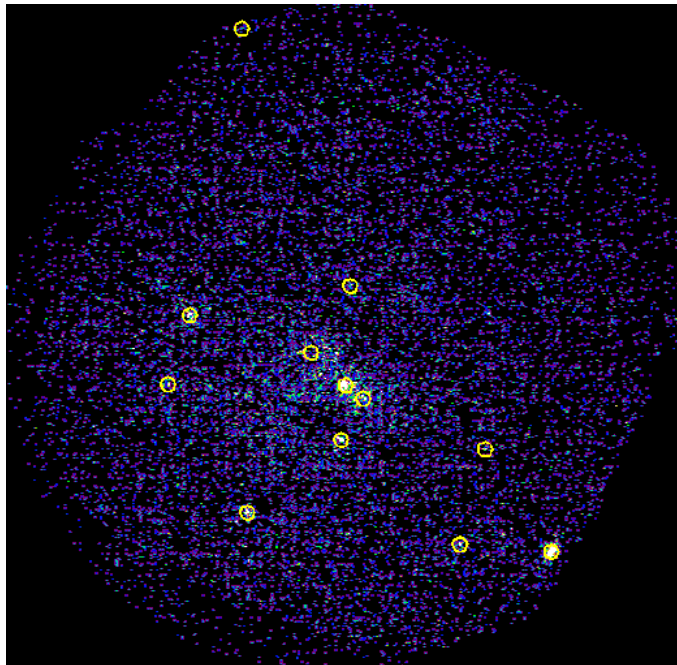
Transient algorithm

- For each observation, **source detections** are performed on images integrated on a short **time interval** (e.g. 1000 s) and results compared with the reference source list for the full observation (typically 5,000 – 130,000 s), searching for new point sources



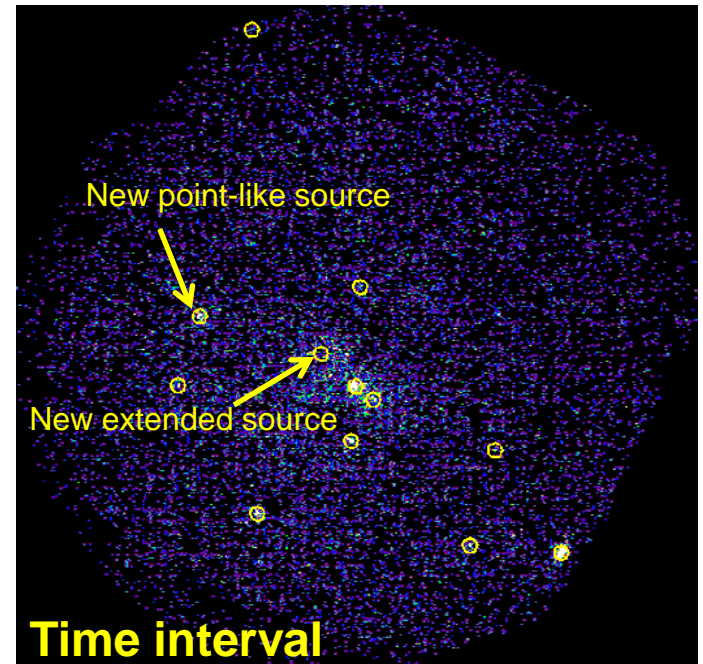
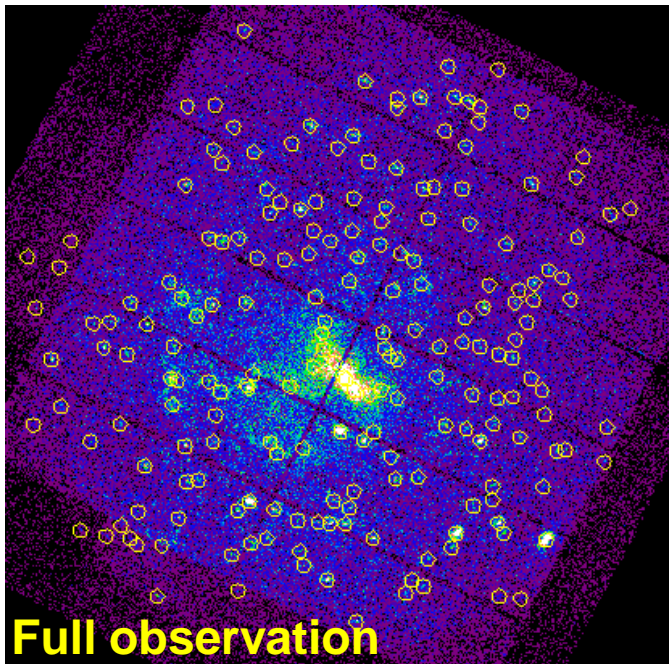
Transient algorithm

- For each observation, **source detections** are performed on images integrated on a short **time interval** (e.g. 1000 s) and results compared with the reference source list for the full observation (typically 5,000 – 130,000 s), searching for new point sources



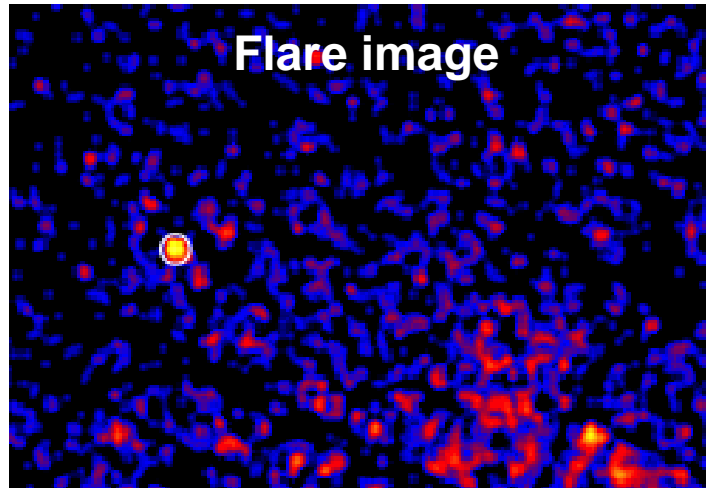
Transient algorithm

- For each observation, **source detections** are performed on images integrated on a short **time interval** (e.g. 1000 s) and results compared with the reference source list for the full observation (typically 5,000 – 130,000 s), searching for new point sources

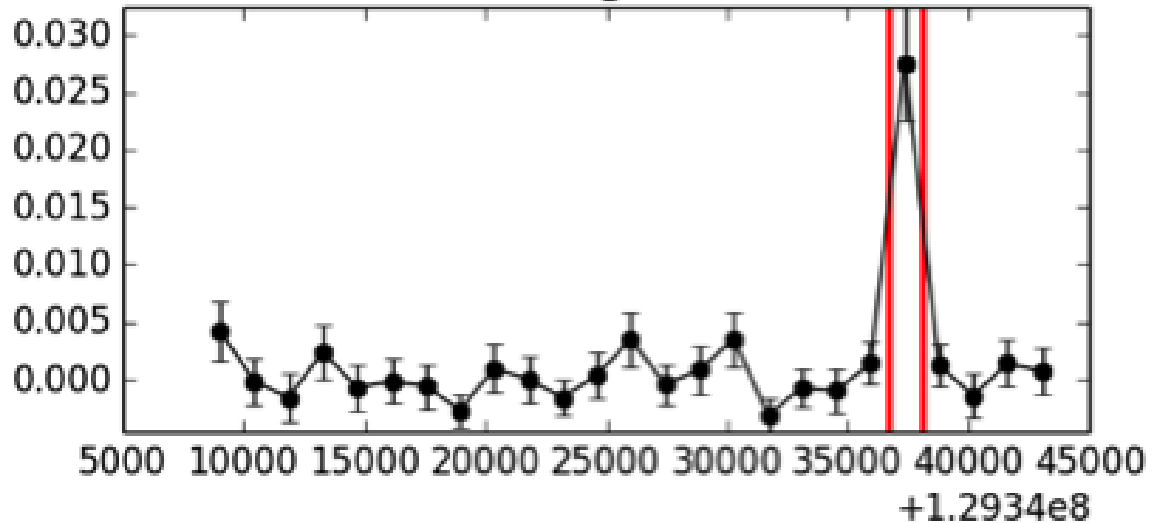


Images and lightcurve

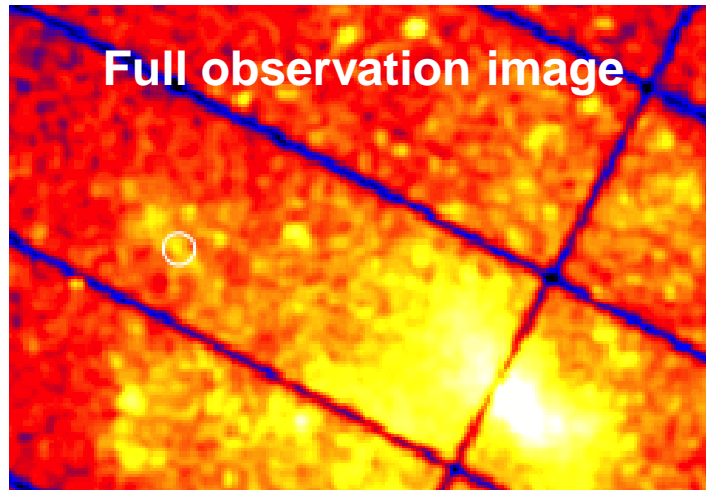
Flare image



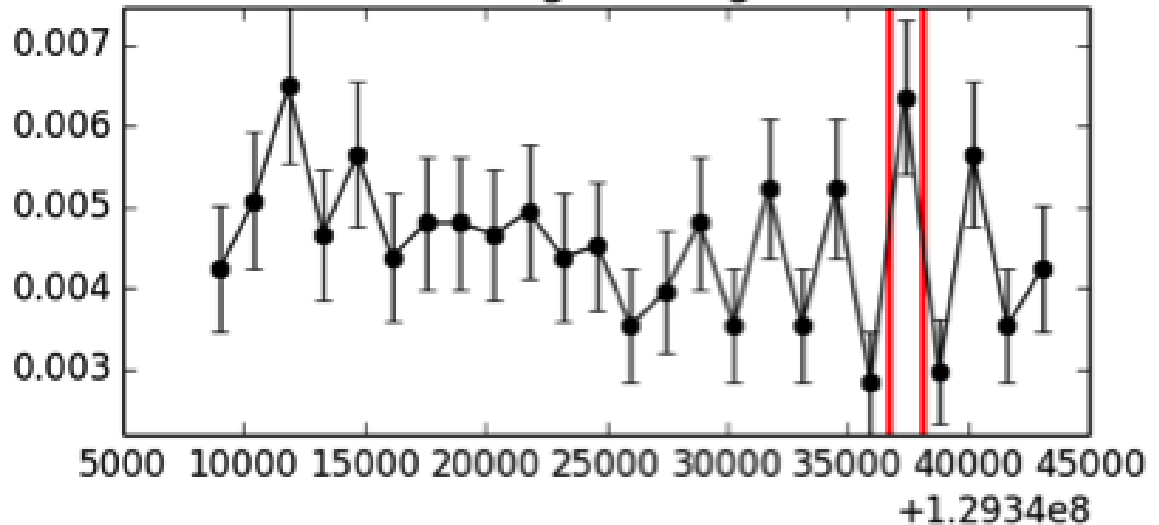
Source light curve



Full observation image



Scaled background light curve



Examples

- 0051550101: trans21
- 0011420201: trans3, trans5
- 0008820401: trans6
- 0028740201: trans1
- ~~02~~00480201: trans2
- ~~01~~43652301: trans5
- ~~01~~09270301: trans1

QUESTIONS

- 1) Is the transient candidate a real transient X-ray source?
- 2) Is it a new X-ray source?
- 3) Has it a possible counterpart at other wavelengths (e.g. in optical)?
- 4) What kind of astrophysical object or phenomenon might it be?
- 5) Might it be an important scientific discovery?

Virtual Machine

- User name: **extras**
Password: **EXTraS_user_2015**
[**EXTraS?user?2015** if Italian keyboard]
- To unlock the screen: **click and drag up**, and [if Italian keyboard] type: **EXTraS_user_2015**
- **Terminal** and **web browser** in “Applications” menu
- *Copia* = **ctrl+c**. *Incolla* = **ctrl+v**
- Download file with instructions:
<http://www.iasf-milano.inaf.it/~tiengo/EXTraS/CookBook.txt>