



# Vt Aoi Catcher

**VtAoiCatcher** is an application enabling to identify the observations, past or future, of various missions / instruments and possibly modes, within an area of interest.

After having defined the area of interest, various search filters (instruments, spatial resolution, overlay percentage), and the time interval in which the acquisitions have to be searched, VtAoiCatcher computes the intersections between the acquisition swaths and the area of interest.

Results are given in two forms:

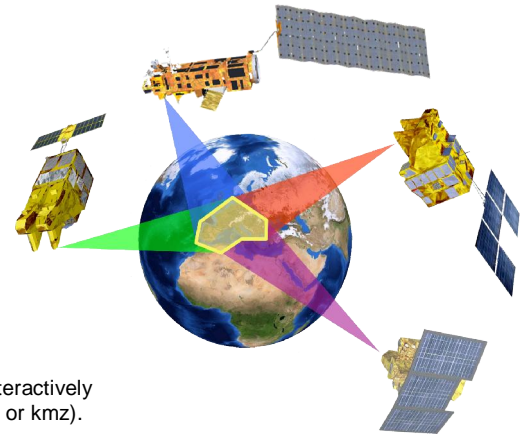
- a list of "candidate acquisitions" in a textual list, and possibly
- a list of polygons displayed in a rendering application (virtual globes like Google Earth).

One or more items in the candidate list can be selected and interactively viewed in the virtual globe or exported in various formats (text, kml or kmz).

VtAoiCatcher is useful to:

- very rapidly select the possible future missions / instruments that could observe a particular zone of the Earth within the next few hours or days (for example in case of crisis management),
- check the revisiting time of a particular mission / instrument over a given area of interest (for example to prepare a multitemporal synthesis or mosaic),
- prepare the acquisition plan for recurrent observations,
- identify pair of sensors that could be complementary on a zone (for example for stereo or interferometry applications or coupling optical and radar observations),
- retrieve the precise acquisition date / time and observation conditions of a particular image for which ancillary data have been lost
- ...

## Vt Aoi Catcher



**Search parameters**

All missions / instruments: Envisat, ASAR, IM, IS1, IS2, IS3, IS4, IS5, IS6, IS7, WSM, MERIS

All categories: All radar (≤ 2.5m, 2.5m - 10.0m, 10.0m - 30.0m, 30.0m - 150.0m, ≥ 150.0m), All optical (≤ 2.5m, 2.5m - 10.0m, 10.0m - 90.0m, 30.0m - 150.0m, ≥ 150.0m)

Acquisition date start (UTC): now 15/03/2009 dd/mm/yyyy 11:10:43 hh:mm:ss

Acquisition duration: 3 dd 00:00:00 hh:mm:ss

Minimum overlay: 10.0 %

**Information**

Info : Envisat TLE comes from "http://celestrak.com/NORAD/elements/resource.txt" and his epoch is 2009-03-14T00:34:41.303424000.  
 Info : SPOT-5 TLE comes from "http://celestrak.com/NORAD/elements/resource.txt" and his epoch is 2009-03-14T11:04:53.708736000.  
 Info : D:\VisioTerra\Technique\P051\_TOTAL\_AOI\_CATCHER\engineering\20090312AOI test\gabon.shp loaded as an AOI.  
 Info : Done !

Mission	InstrumentMode	Acquisition date start	Acquisition date stop	overlay (%)	Propagation time (in days)
Envisat	ASAR / IM / IS1	2009-03-16T21:18:23	2009-03-16T21:19:48	20.6	2.86
Envisat	ASAR / IM / IS2	2009-03-16T21:18:20	2009-03-16T21:19:46	21.1	2.86
Envisat	ASAR / IM / IS3	2009-03-16T21:18:20	2009-03-16T21:19:42	13.5	2.86
Envisat	ASAR / WSM	2009-03-16T08:44:34	2009-03-16T08:45:41	22.9	2.34
Envisat	ASAR / WSM	2009-03-16T21:18:20	2009-03-16T21:19:48	41.3	2.86
Envisat	MERIS	2009-03-16T08:44:34	2009-03-16T08:45:41	11.3	2.34
Envisat	MERIS	2009-03-16T09:21:12	2009-03-16T09:23:01	98.6	4.37
SPOT-5	HRG / PAN	2009-03-16T09:34:22	2009-03-16T09:36:12	100.0	1.94
SPOT-5	HRG / XS	2009-03-17T09:15:11	2009-03-17T09:16:57	43.9	2.93
SPOT-5	HRG / XS	2009-03-16T09:34:22	2009-03-16T09:36:12	100.0	1.94
SPOT-5	HRG / XS	2009-03-17T09:15:11	2009-03-17T09:16:57	43.9	2.93

**Google Earth**

Recherche: Aller à Ex.: Bordeaux

**Liens**

- Nos lieux préférés
- Lieux temporaires
- VtAoiCatcher - AOI 1 from file : gabon
- VtAoiCatcher - Search 1
  - AOI input : gabon
  - Envisat / ASAR / IM / IS1 - 16/03/2009 21:18:23
  - Mission : Envisat / Instruments ASAR / IM / IS1
  - Envisat / ASAR / IM / IS2 - 16/03/2009 21:18:20
  - Mission : Envisat / Instruments ASAR / IM / IS2
  - Envisat / ASAR / IM / IS3 - 16/03/2009 21:18:20
  - Mission : Envisat / Instruments ASAR / IM / IS3
  - Envisat / ASAR / WSM - 16/03/2009 08:44:34
  - Mission : Envisat / Instruments ASAR / WSM
  - Envisat / ASAR / WSM - 16/03/2009 21:18:20
  - Mission : Envisat / Instruments ASAR / WSM
  - Envisat / MERIS - 16/03/2009 08:44:34
  - Mission : Envisat / Instruments MERIS
  - Envisat / MERIS - 16/03/2009 09:21:12
  - Mission : Envisat / Instruments MERIS
  - SPOT-5 / HRG / PAN - 16/03/2009 09:34:22
  - Mission : SPOT-5 / Instruments HRG / PAN
  - SPOT-5 / HRG / XS - 17/03/2009 09:15:11
  - Mission : SPOT-5 / Instruments HRG / XS
  - SPOT-5 / HRG / XS - 16/03/2009 09:34:22
  - Mission : SPOT-5 / Instruments HRG / XS
  - SPOT-5 / HRG / XS - 17/03/2009 09:15:11
  - Mission : SPOT-5 / Instruments HRG / XS

718 km

Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
Image ©2009 TerraMetrics

Google

lat: 4.925227° long: 10.054140° elev: 373 m Altitude: 2092.13 km

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