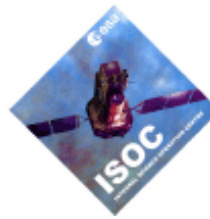


# ***INTEGRAL***

**Science Operations Centre**

## **Announcement of Opportunity for Data Rights Proposals**



### **AO-11 Data Rights Proposals**

INT/OAG/13-0387/Dc

Issue 1

9 September 2013

Prepared by C. Winkler



***INTEGRAL***  
***AO-11 Data Rights***  
***Proposals***

**Doc.No: INT/OAG/13-0387/Dc**

**Issue: Issue 1**

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## 1 Introduction

The purpose of this document is to provide an overview of this Announcement of Opportunity. This AO is calling for data rights proposals for targets within the field of view (FOV) of previously approved AO-11 non-ToO\* open time observations.

## 2 Accepted Open Time Proposals

The INTEGRAL AO-11 call for proposals has been divided into two distinct calls: the first, for open time observing proposals, and the second, for data rights proposals. There is now an ESA approved AO-11 observing programme<sup>†</sup> based on all accepted AO-11 open time proposals, and this document addresses issues related to the second call for data rights proposals, that can be associated to approved AO-11 non-ToO open time observations.

The idea of associating data rights proposals to non-ToO open time observations is a generalisation of the key programme (KP) concept first implemented in AO-4 (2006). This is possible because of INTEGRAL's large FOV which typically contains more than one source, allowing scientists interested in different sources or astrophysical phenomena to simultaneously benefit from the same observation. This maximizes both, the mission's scheduling efficiency and its scientific return.

Twenty-two non-ToO open time proposals have been approved in the AO-11 observing programme. Details of the observing programmes which are relevant for the purpose of this AO are shown in Table 1. The reader should be aware that five AO-11 observing programmes provide immediate public access to the data (see Note 1 in Table 1) and, therefore, data rights proposals can not be accepted for those programmes. Also, some other constraints exist on other programmes, as indicated in Table 1 and in Section 3.2.

For your convenience, the INTEGRAL web site<sup>‡</sup> also provides a "Proposal Query Tool" that for one or more sources, returns the list of those proposals whose fields contain the specified coordinates.

## 3 Data Rights

### 3.1 Introduction

The execution of any non-ToO AO-11 observation providing data to the PI of the observation and to PIs of approved targets from associated data rights proposals can be considered as an "amalgamated" observation from a data rights point of view. Proposers must respect the exclusive data rights assigned to the PIs of the observing programmes. All data rights proposals

\* ToO = Target of Opportunity. A non-ToO observation is a standard normal or fixed time observation.

<sup>†</sup> [http://www.rssd.esa.int/SD/INTEGRAL/docs/AO11\\_approved\\_programme.pdf](http://www.rssd.esa.int/SD/INTEGRAL/docs/AO11_approved_programme.pdf)

<sup>‡</sup> <http://www.rssd.esa.int/index.php?project=INTEGRAL&page=index>

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must contain a clear scientific justification of the exposure time needed to achieve the scientific objectives.

The Time Allocation Committee (TAC) will review all data rights proposals on scientific merit during the standard peer review process, and assign data rights on specific individual source(s) or defined extended region(s) for the accepted proposals. The case of sources that have not been allocated and/or which have been discovered serendipitously is discussed below (in 3.2 5 and 3.3. item 3).

After completion of the TAC process, ISOC will inform all participating PIs about the allocated targets. A list of all approved targets per observation will be maintained on the INTEGRAL web site<sup>§</sup>. Data from targets assigned to PIs remain their property for the usual one-year proprietary period.

For more information on “amalgamation” and INTEGRAL data rights in general, the reader should consult the document “Announcement of Opportunity for Observing Proposals (AO-11): Overview, Policies and Procedures”, Doc-ID: INT/OAG/13-0378/Dc, Issue 1, 4 March 2013, ([http://integral.esac.esa.int/AO11/AO-11\\_Overview\\_Policies\\_Procedures.pdf](http://integral.esac.esa.int/AO11/AO-11_Overview_Policies_Procedures.pdf)).

### 3.2 Submission of Data Rights Proposals

All accepted non-ToO AO-11 observations (programmes) are, in principle, open for associated data rights proposals submitted by the world - wide scientific community at large in response to this Call. The description of the programmes and their observing strategies are available on the INTEGRAL web site.

There are, however, some restrictions (see also Table 1, below):

1. For programmes led by PIs from the Russian Federation, associated data rights proposals can be submitted exclusively by scientists affiliated with institutes and universities located in the Russian Federation.
2. For programmes whose data will be made public immediately, associated data rights proposals will not be accepted.
3. Some programmes follow an observing strategy involving scans, to be executed as a “slew-and-stare” manoeuvre, rather than the usual dither pattern. It is therefore important to remember, that the exposure per pointing can be short, and therefore the exposure on a given source may be shallow.
4. Valid targets for data rights proposals include: known point sources (specified as a list of targets including names and co-ordinates) and/or extended regions of diffuse emission (specified by coordinate boundaries or by the FOV). It is also possible to request specific energy intervals for both, point sources and extended regions (e.g., a narrow energy band centred on 511 keV, or on 1.8 MeV, or data from a specific energy range, say, from 400 to 600 keV).
5. Invalid targets for data rights proposals include: previously unknown and serendipitous sources, and any class of sources without specific identification like, e.g., “... all AGN in the FOV...”

<sup>§</sup> <http://www.rssd.esa.int/index.php?project=INTEGRAL&page=index>

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In general, it is recommended to verify for each observing programme of interest to the proposer, its observing strategy using the Exposure Map Tool (EMT), available on the INTEGRAL web site. EMT will show the exposure on a given position based on the programme's observing strategy.

### **3.3 Detailed Data Rights**

For any non-ToO AO-11 observation whose scientific data can be exploited, all participating PIs will:

1. Receive the data from the entire FOV for processing and analysis, as this cannot be avoided due to the characteristics of coded aperture instruments.
2. Have exclusive data rights on those point sources and/or extended regions allocated specifically to them by the TAC for the usual one-year proprietary period.
3. Be allowed to publish results on any other source or extended region contained in that observation which has not been allocated by the TAC. This rule also applies to all serendipitous sources.

Table 1: Overview of all accepted non-ToO AO-11 proposals and restrictions concerning the submission of associated data rights proposals

Proposal ID	Title	PI	Approved Target	Approved Time [ksec]	Note
1120001	Regular and frequent INTEGRAL monitoring of the Galactic Bulge region	Kuulkers	Gal. Bulge region	504	1
1120003	Keeping watch over our Galaxy - the return of the GPS	Bazzano	Gal. Plane scans	1000	1, 3, 4
1120004	Broad view on high energy Galactic background: "Puppis Region"	Isyganikov	Puppis region scans	2000	2, 3, 4
1120005	Broad view on high energy Galactic background: "Galactic Center"	Krivonos	Latitude scans l=0	2000	2, 3, 4
1120011	The High Energy capabilities of INTEGRAL highlighted in a unique multi-wavelength campaign on NGC5548	Petrucchi	NGC 5548	700	
1129700	Polarization of Cygnus X-1	Jourdain/Wilms (amalgamated)	Cyg X-1	2500	5
1120025	Massive Stars in the Orion Region	Diehl	Orion region	3000	
1120027	Continued Observation of the Galactic Center Region with INTEGRAL	Wilms	Sgr A*	2500	
1120029	Regular INTEGRAL monitoring of the Crab	Kuulkers	Crab	540	1
1120030	Hunting the claimed high energy cyclotron line of GRO J1008-57	Kuהל	GRO J1008-57	150	
1120032	INTEGRAL Spiral Arms (ISA) Monitoring Program: Inner Perseus and Norma Arms	Bodaghee	Normal/Perseus	605	1, 4
1120033	INTEGRAL Spiral Arms (ISA) Monitoring Program: Scutum and Sagittarius Arms	Bodaghee	Scutum/Sagittarius	605	1, 4
1120009	Coordinated INTEGRAL, XMM and XRT observations of IGR J21247+5058	Molina	IGR J21247+5058	700	
1120014	Probing the circumstellar environment around periastron in the SFXTs IGR J18450-0435 and IGR J18483-0311	Drave	IGR J18450-0435	150	
1120022	INTEGRAL study of supercritical accretion disk nutation in SS433	Cherepashchuk	SS433	660	2
1120026	Hard X-ray observation of PSR B1259-63 after 2014 periastron	Li	PSR B1259-63	400	
1120002	Identifying & understanding the X-ray binary population of the Small Magellanic Cloud	Coe	SMC + Bridge	1200	
1120015	INTEGRAL monitoring of Centaurus A	Jourdain	Centaurus A	1600	
1120019	Hard X-ray study of the ultra-compact X-ray binary 4U 0614+091	Chenevez	4U 0614+091	500	
1120021	INTEGRAL observations of HESSJ0632+057	Bordas	HESSJ0632+057	1400	
1120034	Characterizing the periastron environment in the SFXT IGR J16328-4726 with INTEGRAL and XMM-Newton	Fiocchi	IGR J16328-4726	200	

- 1: All data will be made public immediately, therefore, subscriptions to individual sources are **NOT** possible
- 2: Associated data right proposals can be submitted only by scientists who are affiliated within the Russian Federation
- 3: The exposure per pointing might be unusually short due to a "slew-and-stare" observation (scan) strategy
- 4: It is recommended to verify the observing strategy using the Exposure Map Tool on the INTEGRAL web-site. EMT will show the exposure on a given position based on the programme's observing
- 5: This proposal is an amalgamation of 1120016 (Jourdain, Cyg X-1; SPI data) and 1120018 (Wilms, Cyg X-1; IBIS data)