

## **The 7th Framework Programme**

**Theme: SPACE**

**Project: POPDAT**



## **D2.4 Data processing of previously selected data**



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## 1.1 INTRODUCTION

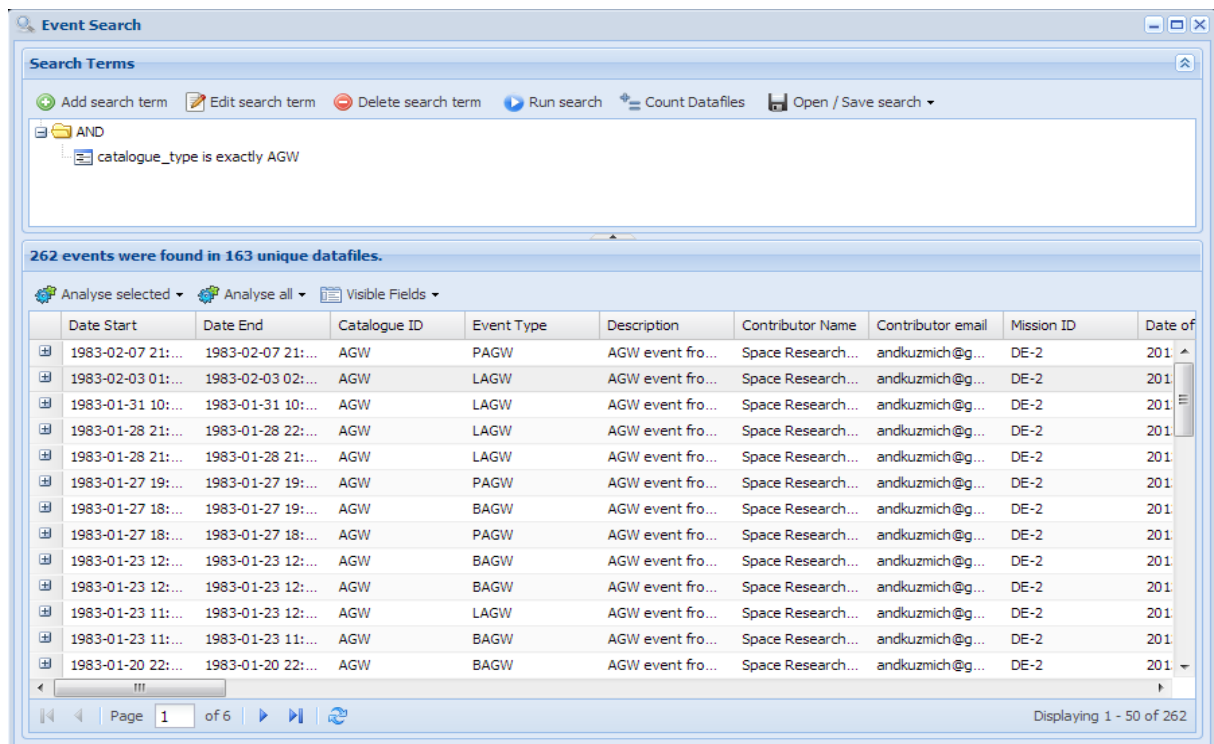
Main objective of this deliverable is to summarize current operational status of POPDAT IWS at the month 22 of project implementation.

### 1.2 IWS statistics of the current data quantity subject of service

Here below, statistics of the previously selected already processed data, uploaded to the different IWS Waves catalogues is given.

#### 1.2.1 Atmospheric Gravity Waves

At present, AGW catalogue consist 262 examples of the AGW events taken from 163 DE-2 orbits. Catalogue statistics is illustrated on figure 1 by user's entry dialogue page of IWS.



The screenshot shows the 'Event Search' window with the following search criteria: 'catalogue\_type is exactly AGW'. The results table displays 13 rows of data, including Date Start, Date End, Catalogue ID, Event Type, Description, Contributor Name, Contributor email, Mission ID, and Date of. The interface also shows '262 events were found in 163 unique datafiles.' and a pagination bar at the bottom indicating 'Page 1 of 6' and 'Displaying 1 - 50 of 262'.

Date Start	Date End	Catalogue ID	Event Type	Description	Contributor Name	Contributor email	Mission ID	Date of
1983-02-07 21:...	1983-02-07 21:...	AGW	PAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-02-03 01:...	1983-02-03 02:...	AGW	LAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-31 10:...	1983-01-31 10:...	AGW	LAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-28 21:...	1983-01-28 22:...	AGW	LAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-28 21:...	1983-01-28 21:...	AGW	LAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-27 19:...	1983-01-27 19:...	AGW	PAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-27 18:...	1983-01-27 19:...	AGW	BAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-27 18:...	1983-01-27 18:...	AGW	PAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-23 12:...	1983-01-23 12:...	AGW	BAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-23 12:...	1983-01-23 12:...	AGW	BAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-23 11:...	1983-01-23 12:...	AGW	LAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-23 11:...	1983-01-23 11:...	AGW	BAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201
1983-01-20 22:...	1983-01-20 22:...	AGW	BAGW	AGW event fro...	Space Research...	andkuzmich@g...	DE-2	201

Fig.1

### 1.2.2 Electromagnetic Waves

EMW catalogue consist 5603289 events as been found in 23 data files from DEMETER satellite as illustrated on figure 2.

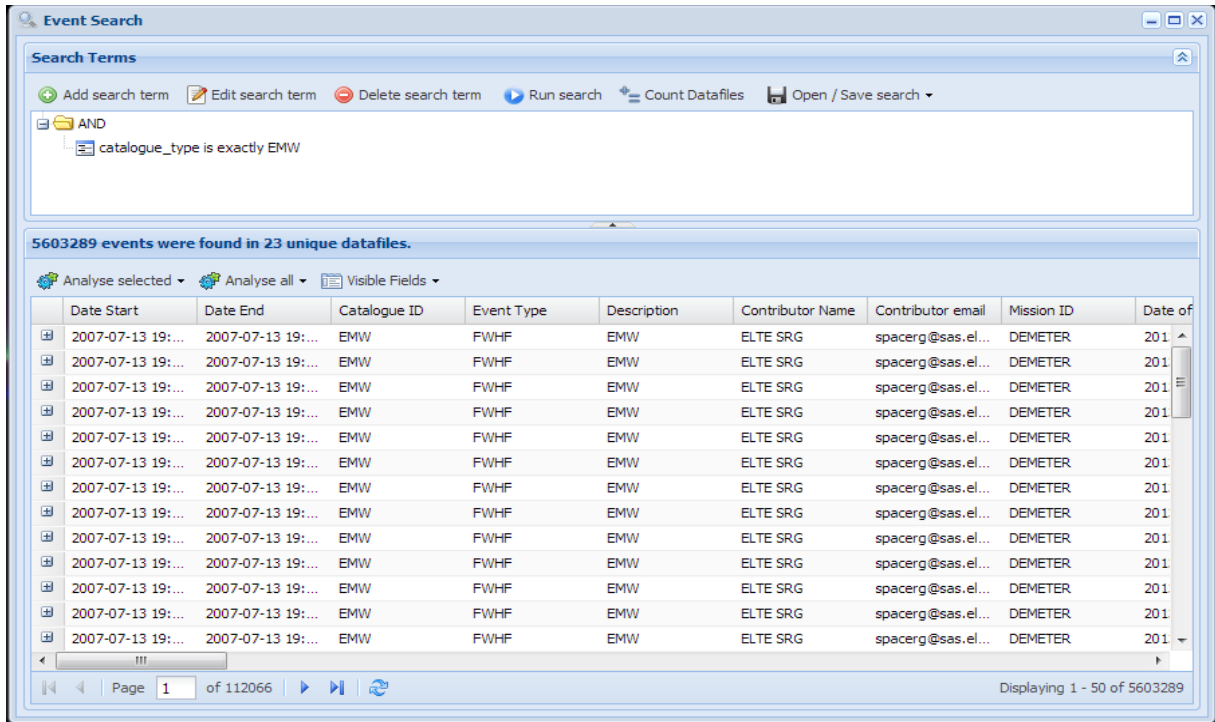


Fig.2

### 1.2.3. Traveling Ionosphere Disturbances

In the same manner, a piece of 104463 TID events found in the AE-C, AE-E, DE-2 and DEMETER satellite 46154 data files are shown on figure 3.

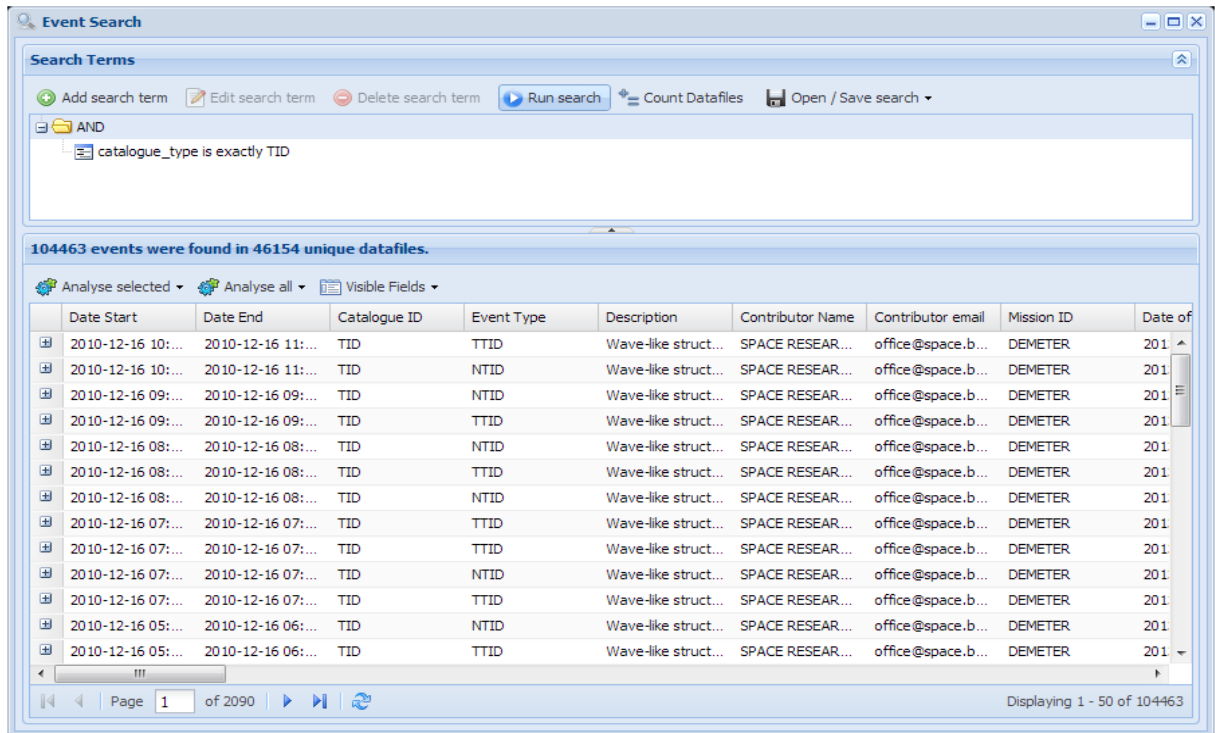


Fig.3

### 1.2.4. Traveling Ionosphere Disturbances in Total Electron Content

At present, TID-TEC catalogue is uploaded with up to 21,847,234 events from 7,352,211 data files. On figure 4, a small fraction list of 673678 events observed within three months of observations from 190046 data files (Jan-March 2005).

The screenshot shows the 'Event Search' window with the following search criteria:

- AND
- catalogue\_type is exactly TID-TEC
- date\_start is after 2005-01-01T00:00:00.000Z
- date\_stop is before 2005-03-01T00:00:00.000Z

673678 events were found in 190046 unique datafiles.

Date Start	Date End	Catalogue ID	Event Type	Description	Contributor Name	Contributor email	Mission ID	Date of
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201
2005-01-01 00:...	2005-01-01 00:...	TID-TEC	MSTID	Time series of fil...	NOVELTIS	contact@novelti...	GPS	201

Page 1 of 13474. Displaying 1 - 50 of 673678

Fig.4

Note, that all Contributors have right to add or replace currently uploaded data from the catalogues by 'Submission Log' dialogue page of IWS.