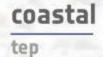


Coastal-TEP

Exploration for Everyone

























It is an amazing time for doing science!





















- Ever growing datasets
- Better quality
- More diversity





















- Lots of compute power
- Lots of storage
- Lots of bandwidth





















- If the data won't come to the processor, then the processor shall go to the data.
- Why aren't we doing it already?













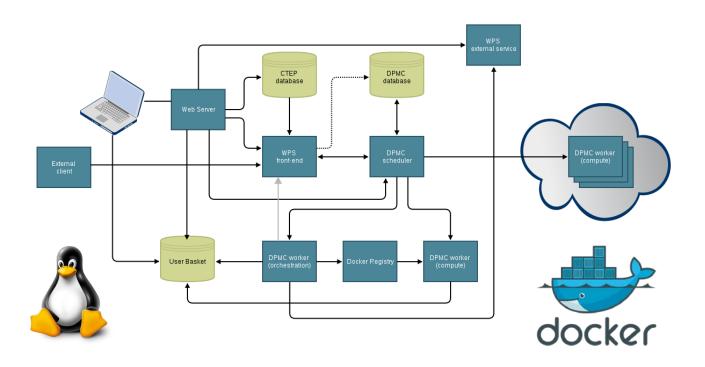
































- **EO Scientists**
- Service/Product Providers
- **End-Users**























- (Mostly) not software engineers
- Have pre-exising arsenal of tools written in their language of choice (C/C++, Python, IDL, Matlab, ...)
- Develop new algorithms and need test them on broad datasets for validation.





















- Comprehensive, easily searchable catalogs
- Simple workflow for publishing
- and running their data processing units
- Easy access to results for analysis





















- Easy tailored access to online data catalogs:
 - Envisat, Sentinels, ...
 - Globcolour, LEGOS, ...
 - In-situ (MERMAID, BIOARGO, ...)
 - Third party missions
- Where possible enriched with semantic feature metadata for more flexible search patterns.





















- Built-in visualization and projections onto the geobrowser
- Integration of the Sentinel Toolbox (SNAP) for more advanced online manipulation
- Ability to download for offline manipulation of results





















- We provide a base runtime layer (batteries included)
- Simple interface to describe and upload a processor:
 - Number of parameters and their types (filename, string, number)
 - Entrypoint (executable/script name)
 - An archive (zip, tar.gz, etc) containing the processor
 - Single hard requirement: place outputs in a specified directory (eg. \$CTEP OUTPUT DIR)
- We can also provide a VM tailored for development























Running a processing task.











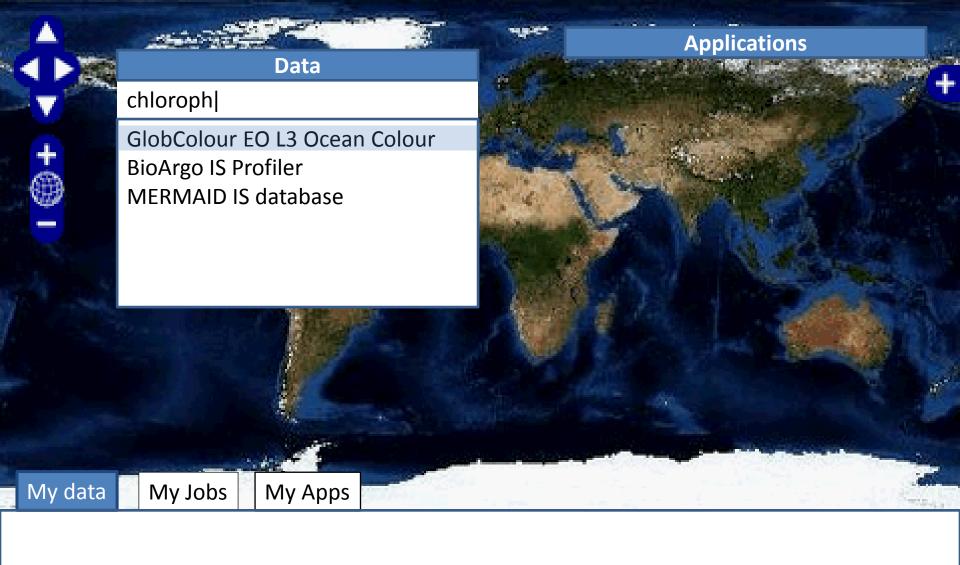


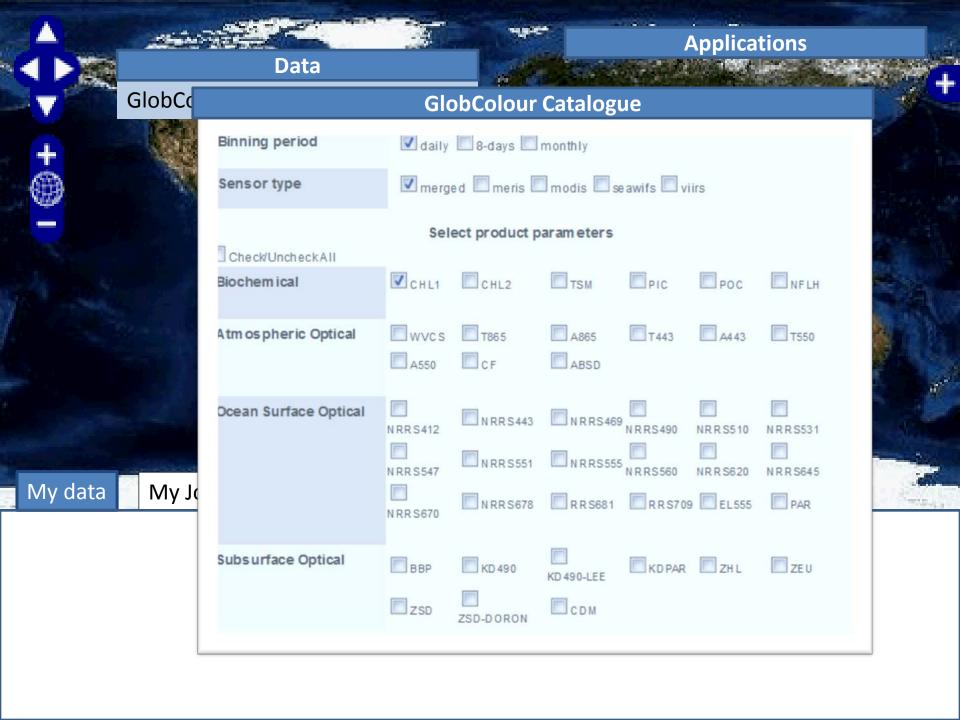


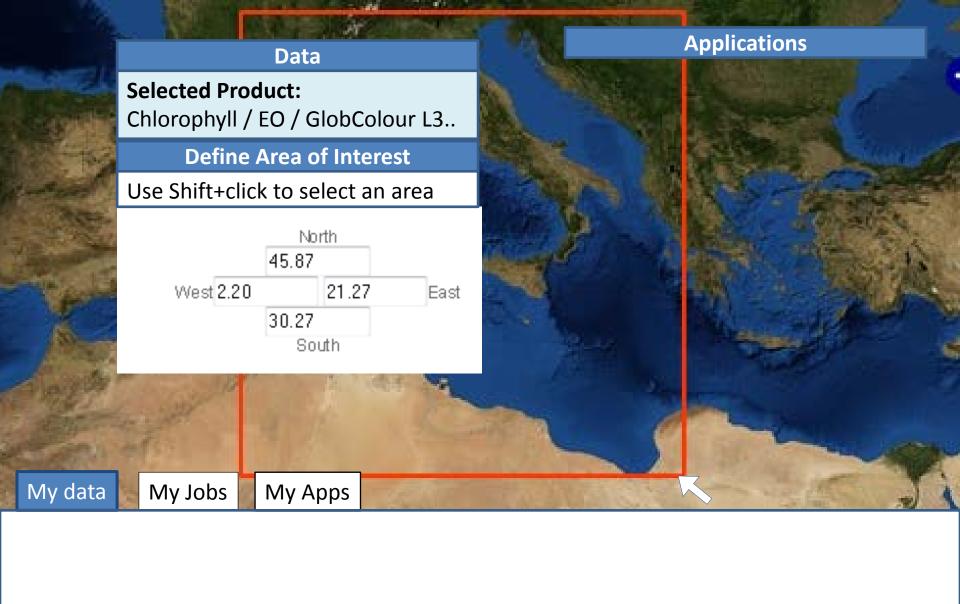


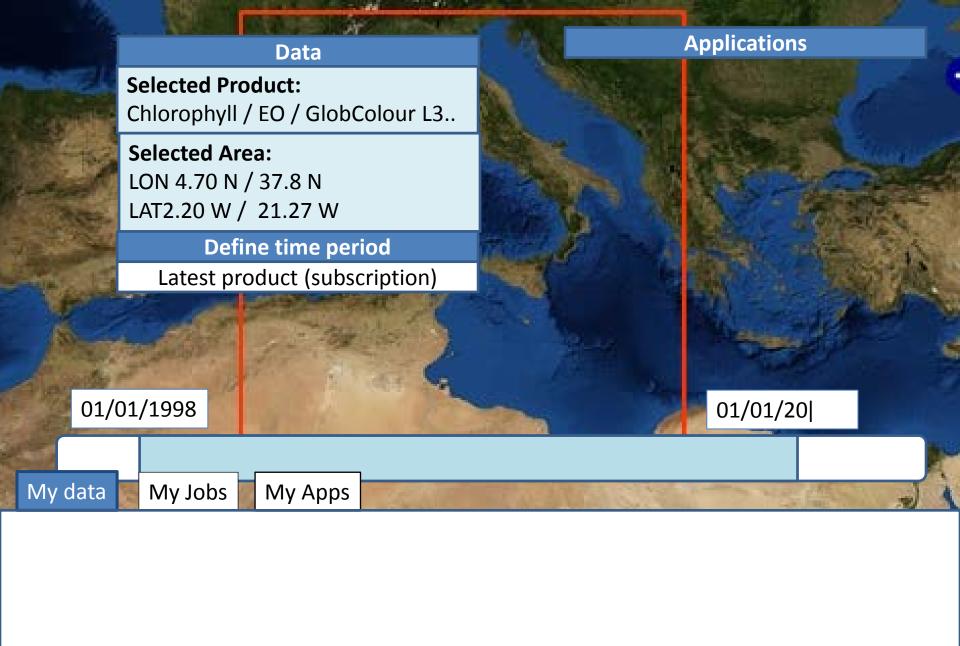












My data

Data

Selected Product:

Chlorophyll / EO / GlobColour L3...

Selected Area:

LON 4.70 N / 37.8 N LAT2.20 W / 21.27 W

Selected Period:

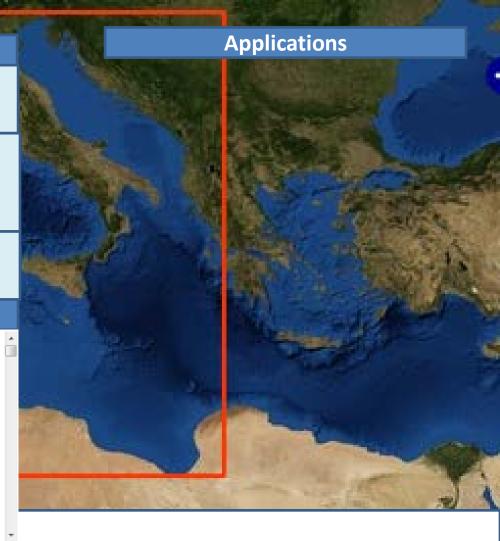
01/01/1998 - 01/01/2015

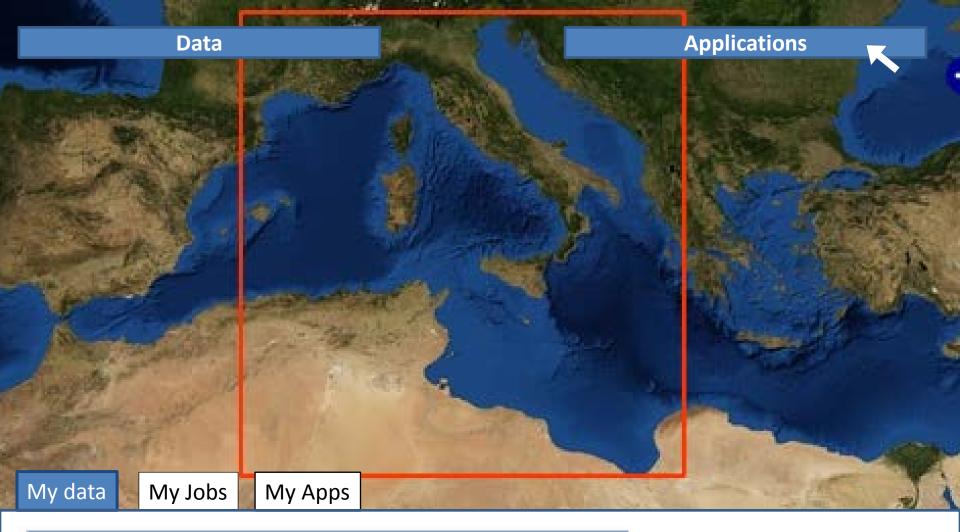
424 Products Found

L3m 19970901-19970930 GLOB 4 AV-SWF CHL1 MO 00.nc L3m 19970901-19970930 GLOB 4 GSM-SWF CHL1 MO 00.nc L3m 19971001-19971031 GLOB 4 AV-SWF CHL1 MO 00.nc L3m_19971001-19971031__GLOB_4_GSM-SWF_CHL1_MO_00.nc L3m_19971101-19971130__GLOB_4_AV-SWF_CHL1_MO_00.nc L3m_19971101-19971130__GLOB_4_GSM-SWF_CHL1_MO_00.nc L3m_19971201-19971231__GLOB_4_AV-SWF_CHL1_MO_00.nc L3m 19971201-19971231 GLOB 4 GSM-SWF CHL1 MO 00.nc L3m 19980101-19980131 GLOB 4 AV-SWF CHL1 MO 00.nc L3m 19980101-19980131 GLOB 4 GSM-SWF CHL1 MO 00.nc L3m 19980201-19980228 GLOB 4 AV-SWF CHL1 MO 00.nc L3m_19980201-19980228__GLOB_4_GSM-SWF_CHL1_MO_00.nc L3m_19980301-19980331__GLOB_4_AV-SWF_CHL1_MO_00.nc L3m_19980301-19980331__GLOB_4_GSM-SWF_CHL1_MO_00.nc L3m_19980401-19980430__GLOB_4_AV-SWF_CHL1_MO_00.nc L3m 19980401-19980430 GLOB 4 GSM-SWF CHL1 MO 00.nc L3m_19980501-19980531__GLOB_4_AV-SWF_CHL1_MO_00.nc

Get products

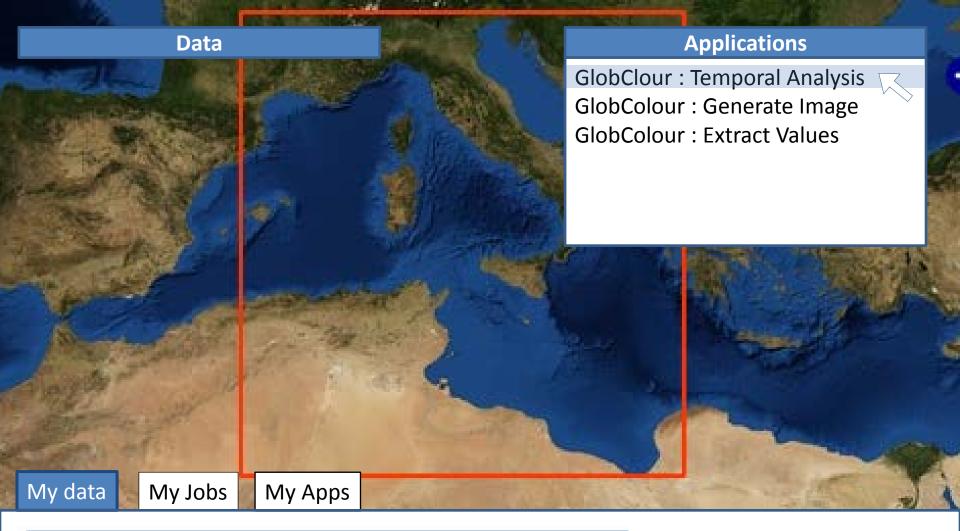
Save query





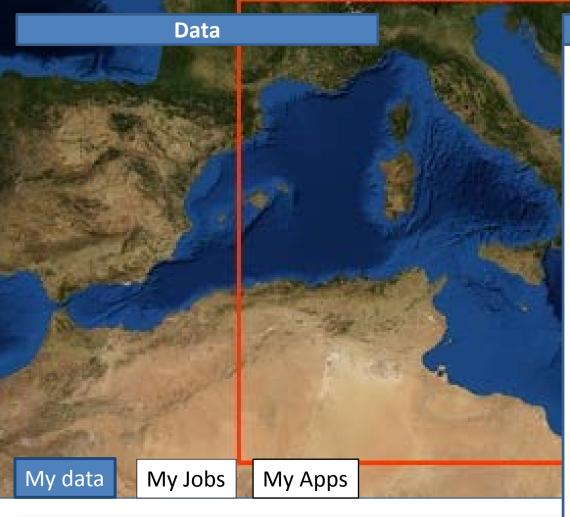
query_xxyzz.xml

10/06/2015 10:07



guery_xxyzz.xml

10/06/2015 10:07



GlobColour : Temporal Analysis

Abstract:

This tool computes average values of a parameter as a function of time, as well as the standard deviation and number of valid bins.

Input:

GlobColour query

Ouptut:

CSV file with time, average value, standard deviation and number of bins.

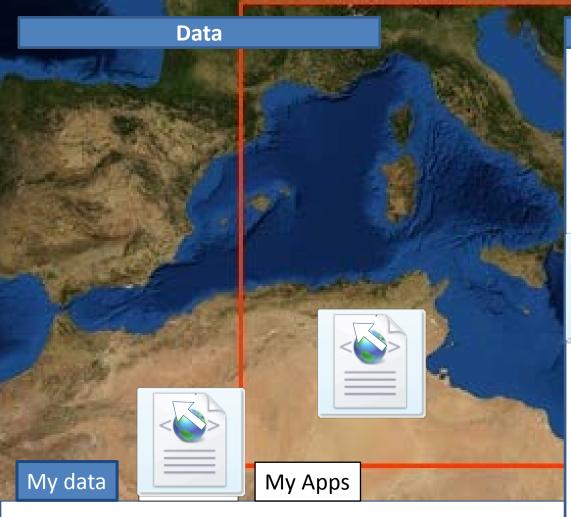
Contributor:





guery_xxyzz.xml

10/06/2015



GlobColour : Temporal Analysis

Abstract:

This tool computes average values of a parameter as a function of time, as well as the standard deviation and number of valid bins.



r query

Ouptut:

CSV file with time, average value, standard deviation and number of bins.

Contributor:





guery_xxyzz.xml

10/06/2015



GlobColour : Temporal Analysis

Abstract:

This tool computes average values of a parameter as a function of time, as well as the standard deviation and number of valid bins.

Input:

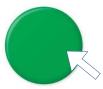
Query XXYYZZ

Ouptut:

CSV file with time, average value, standard deviation and number of bins.

Contributor:





뷀 Query XXYZZ

23/05/2015 17:20



Job title
Job XXYY

Started 01/06/2015 17:17

Status Running



Job title Job XXYY

Started

01/06/2015 17:17

Status

Finished 01/06/2015 17:18



Name	Modified
Nuery XXYZZ	23/05/2015 17:20
☐ Job XXYYZ out ☐	23/05/2015 17:30



Name

TimeSeries.xlsx



View

Copy

Delete

Rename

Upload

Properties

/lodified

04/06/2015 12:39





Creating and uploading a new processor.















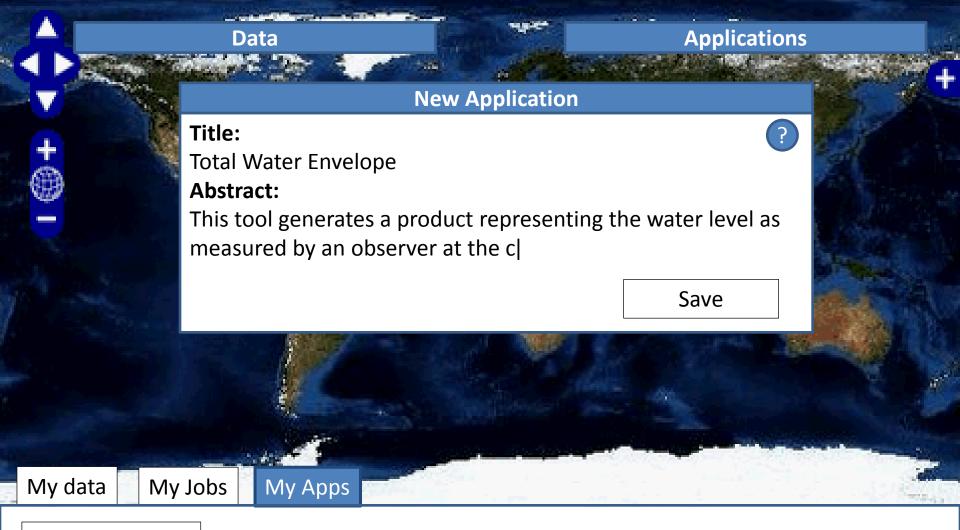




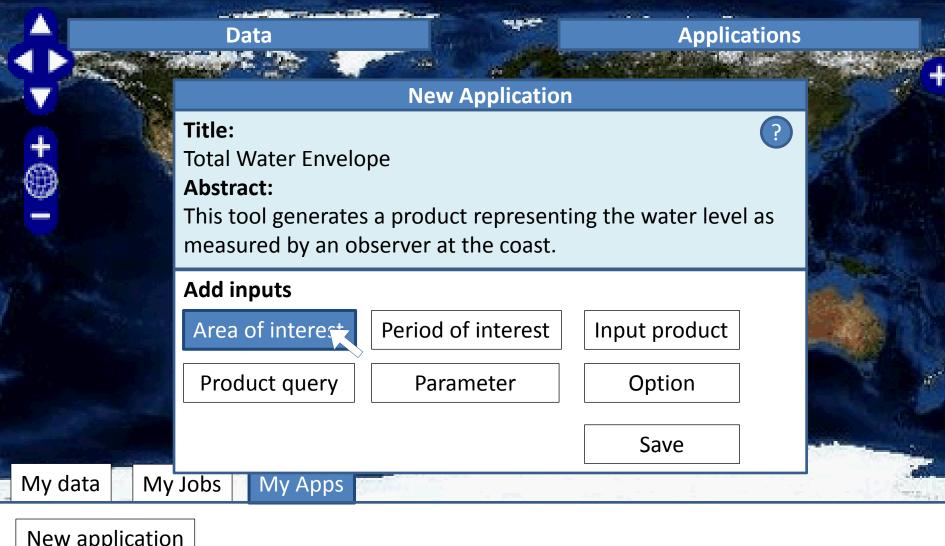




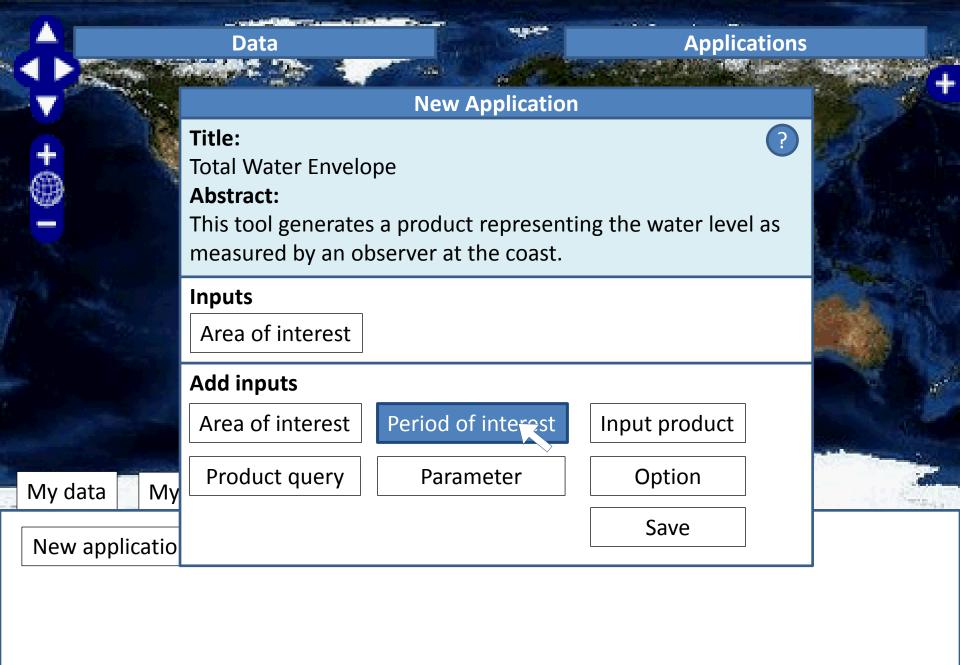
New application



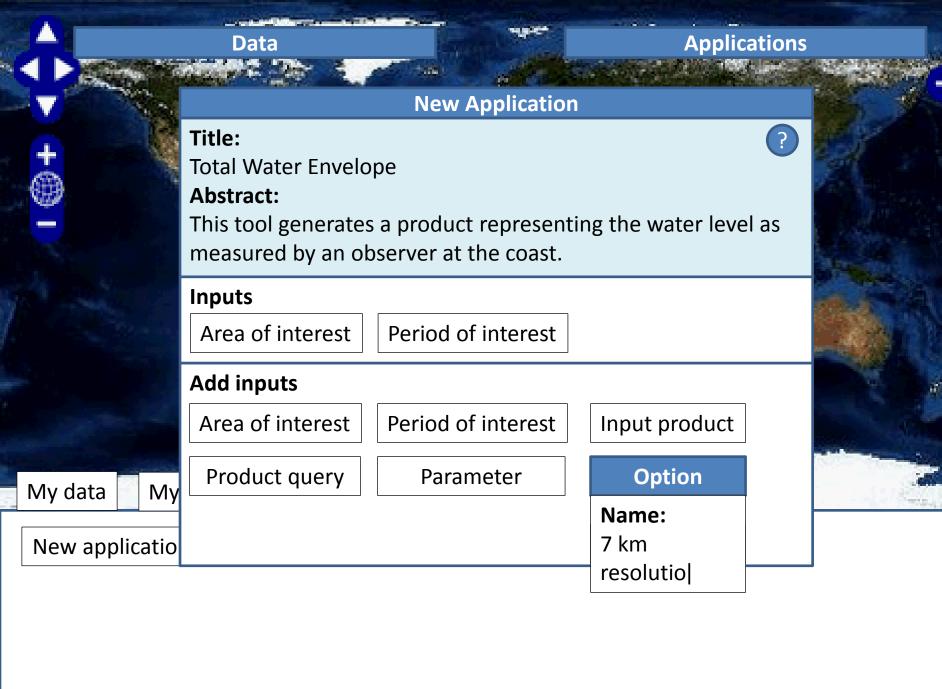
New application

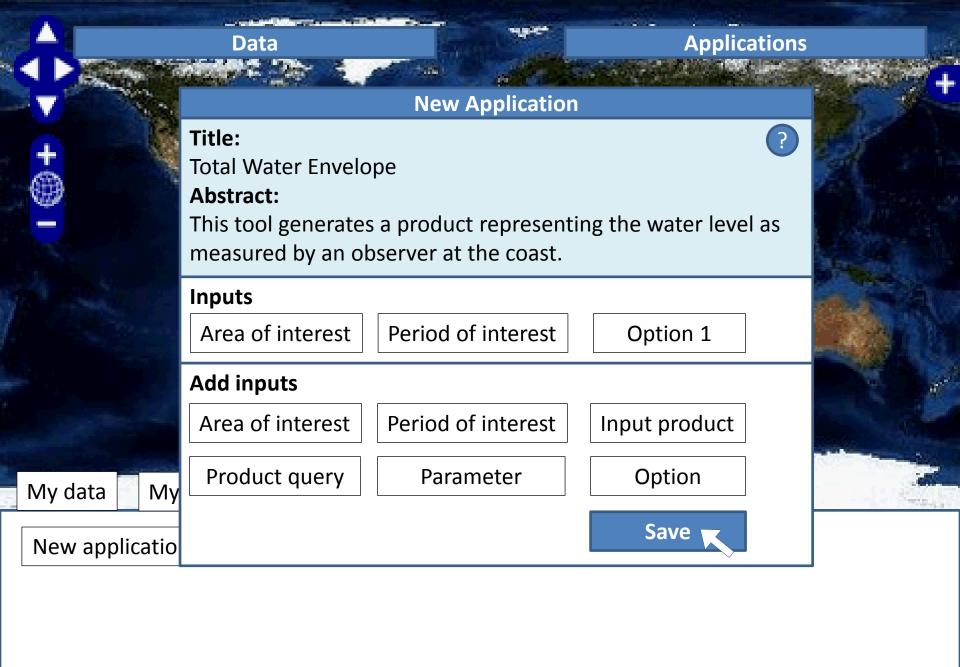


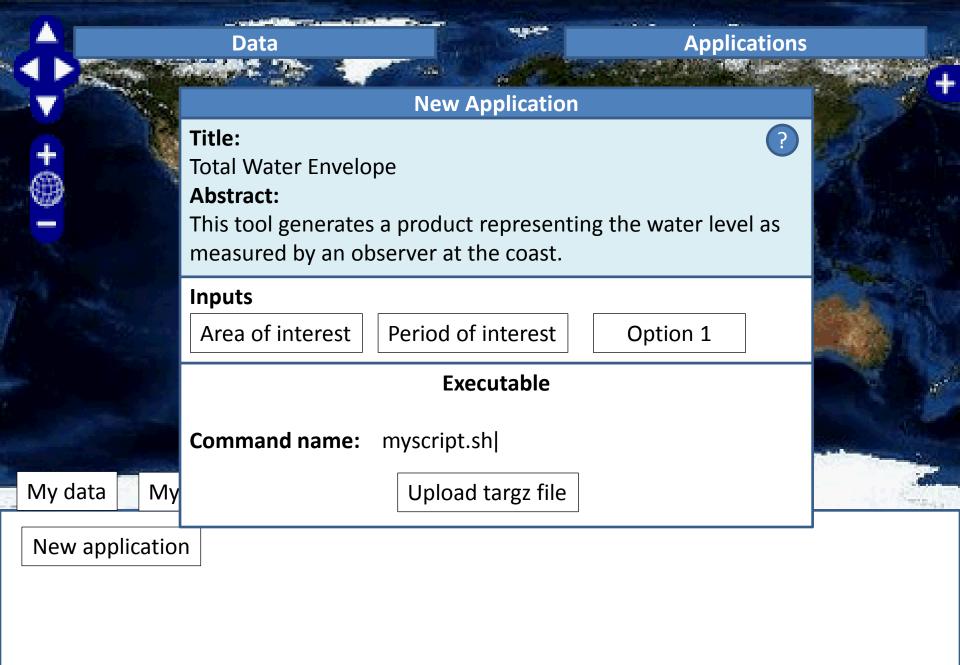
New application

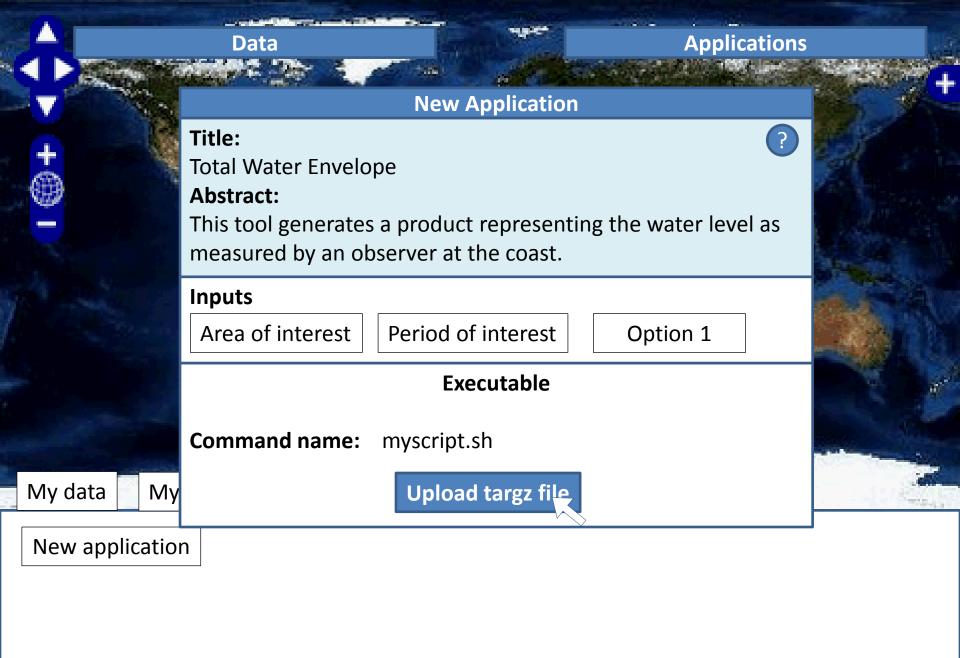


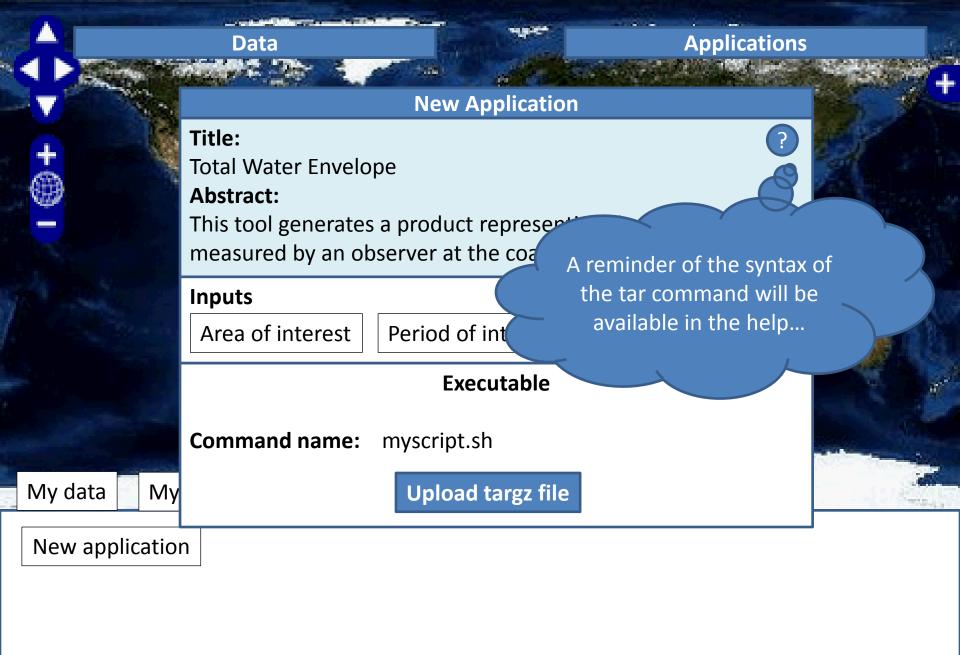
















An End-User subscription to an existing service.









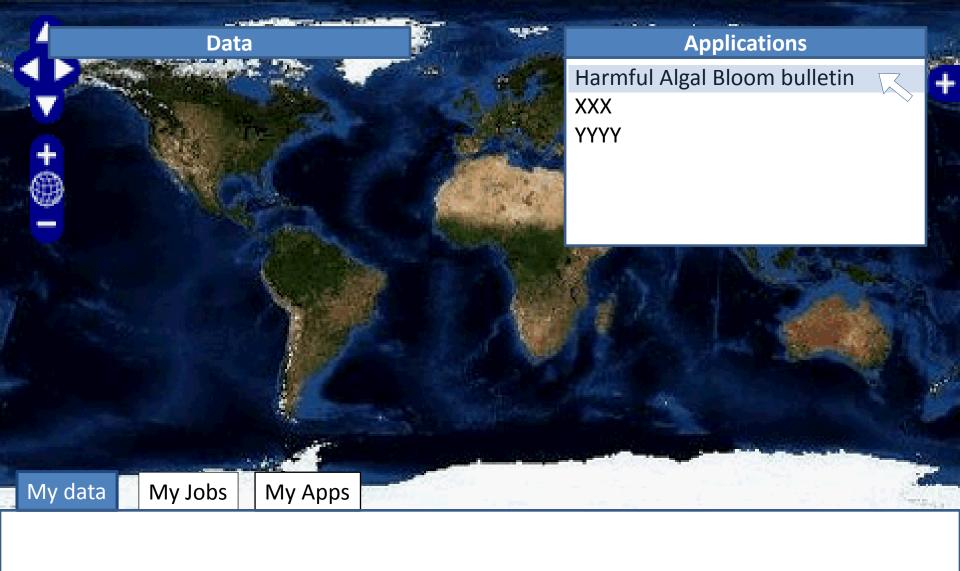














Harmful Algal Bloom Bulletin

Abstract:

This tool generates a HAB likelihood bulletin over an aera of interest

Area of interest

Ouptut:

Pdf file

References:

www.asimuth.eu

Contributor:

TBD



Harmful Algal Bloom Bulletin

Abstract:

This tool generates a HAB likelihood bulletin over an aera of interest

Area of interest

Ouptut:

Pdf file

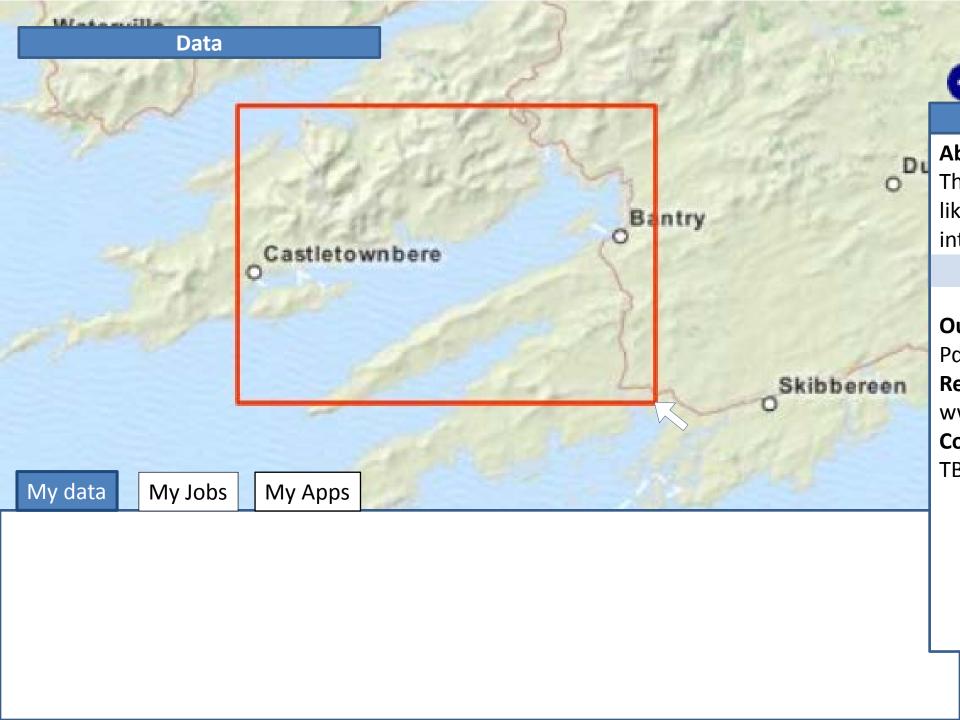
References:

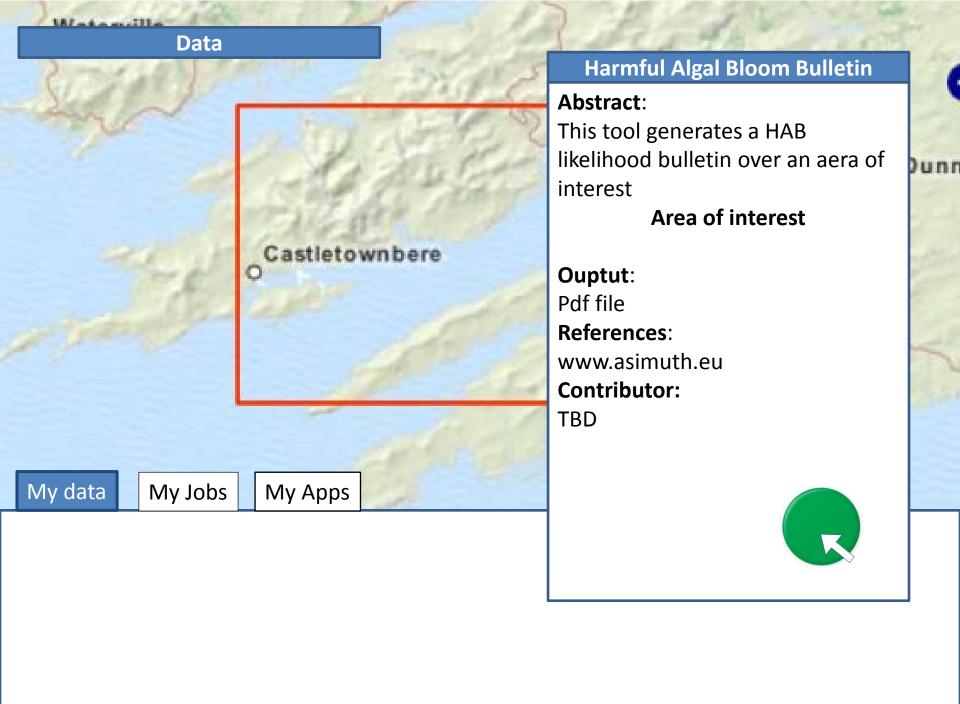
www.asimuth.eu

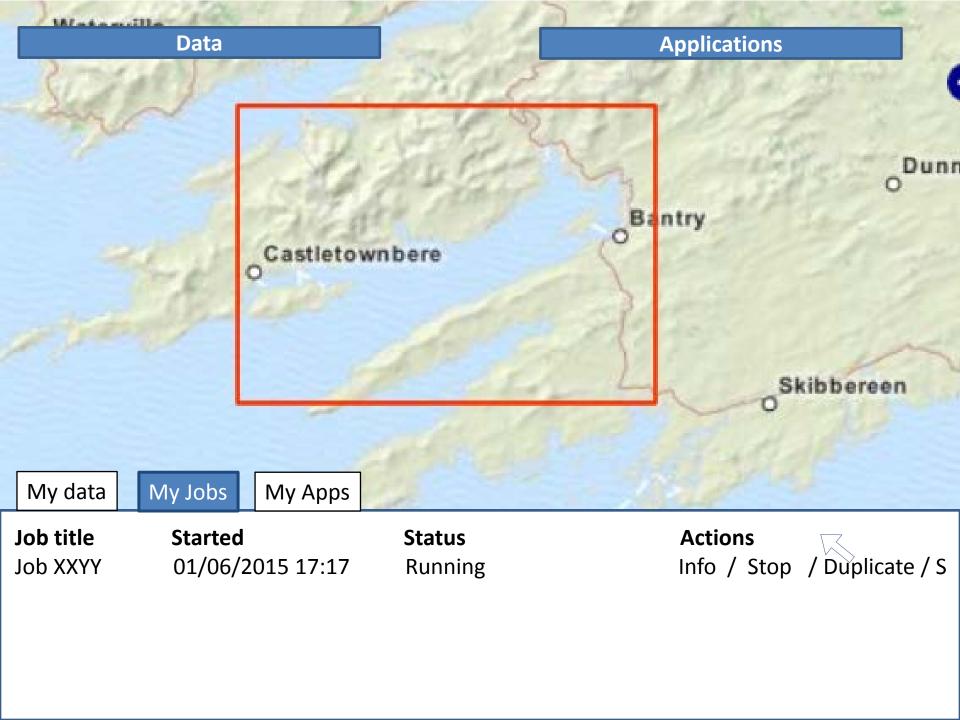
Contributor:

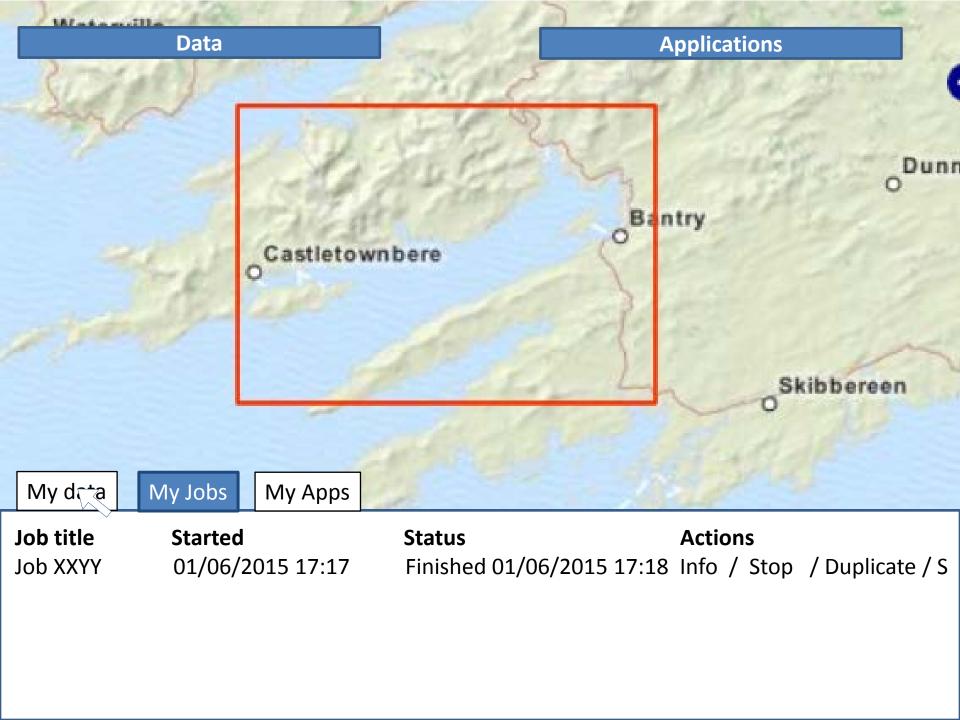
TBD

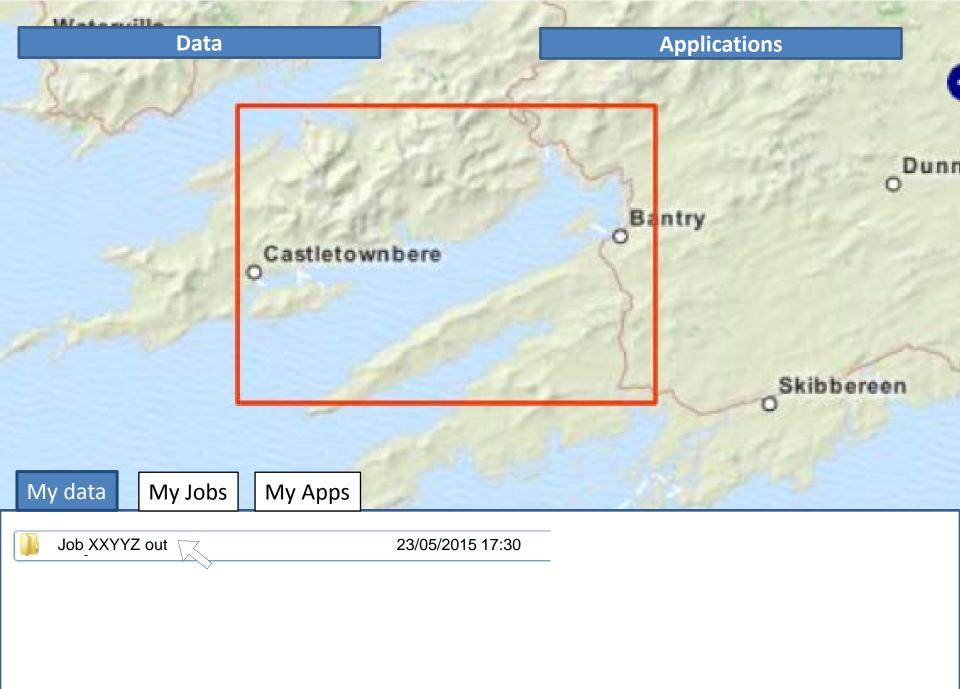


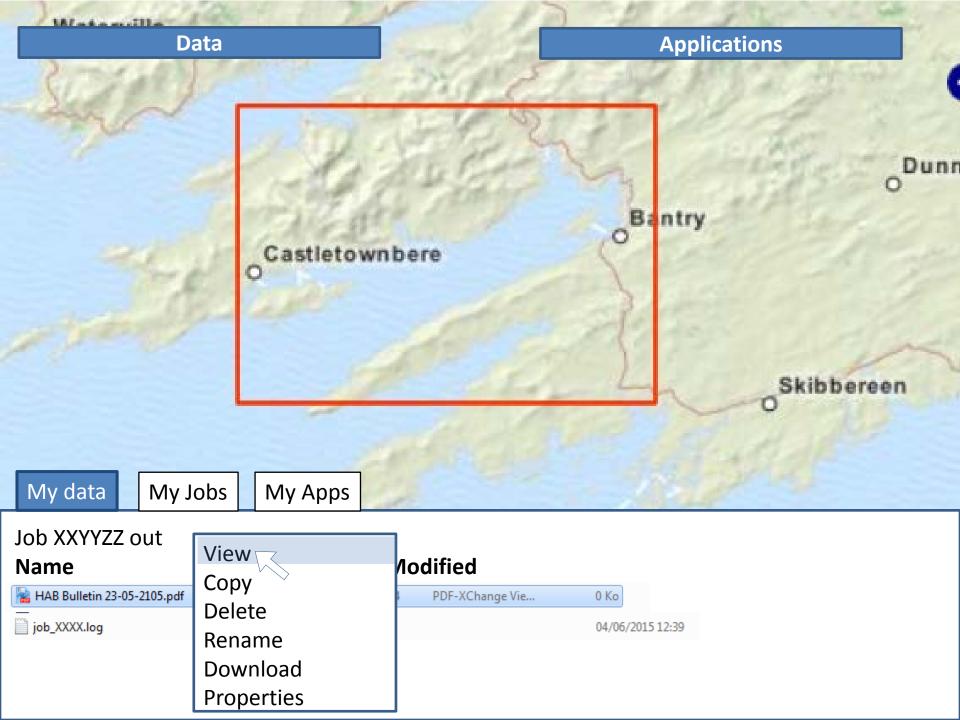


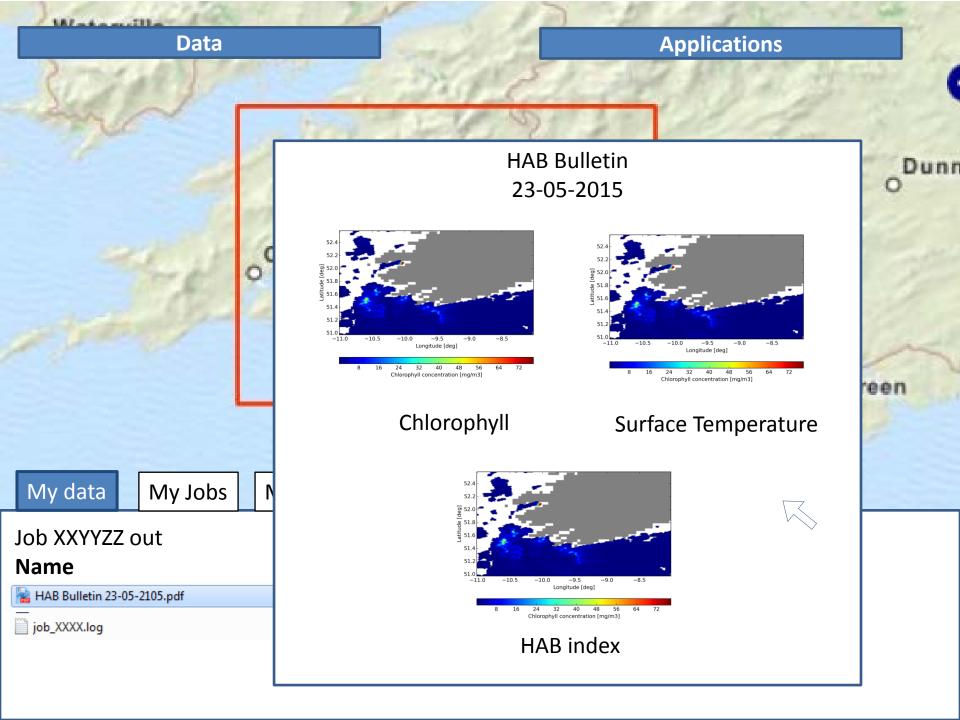


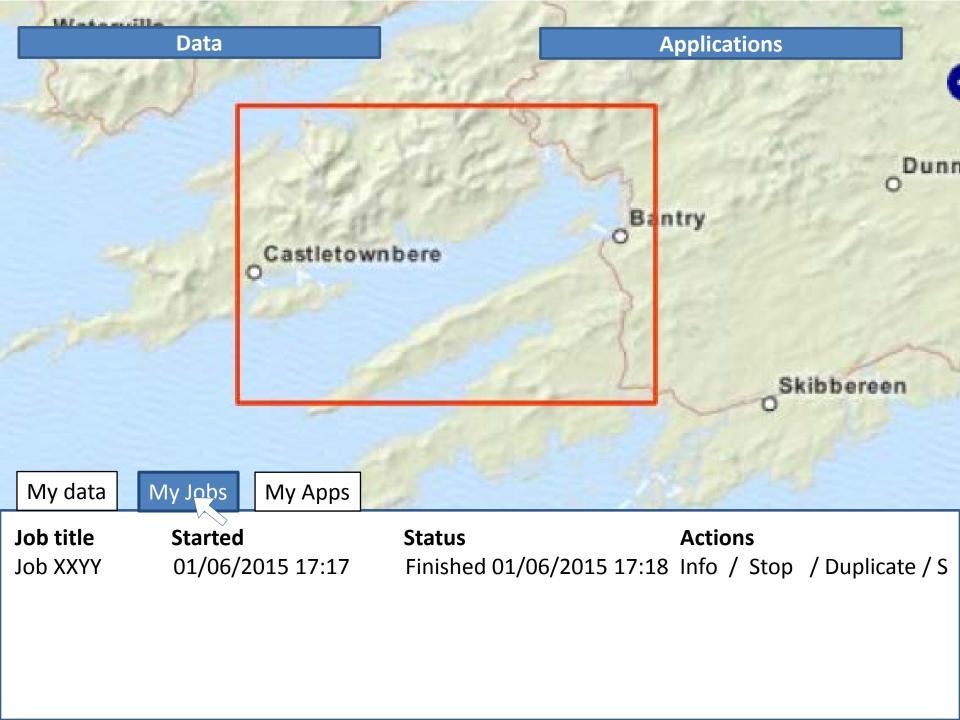


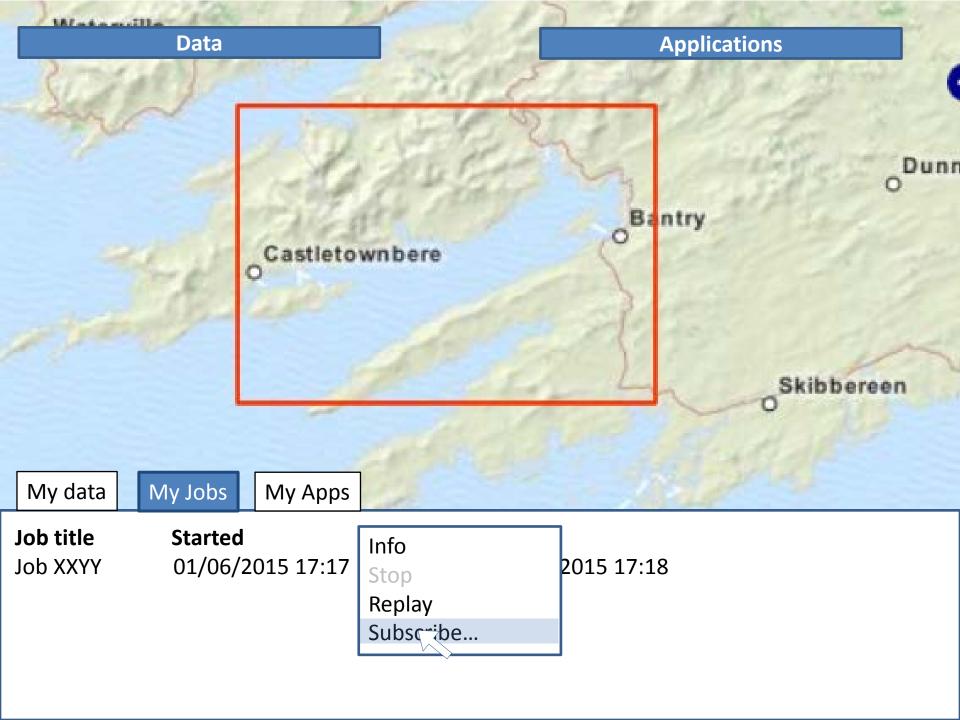


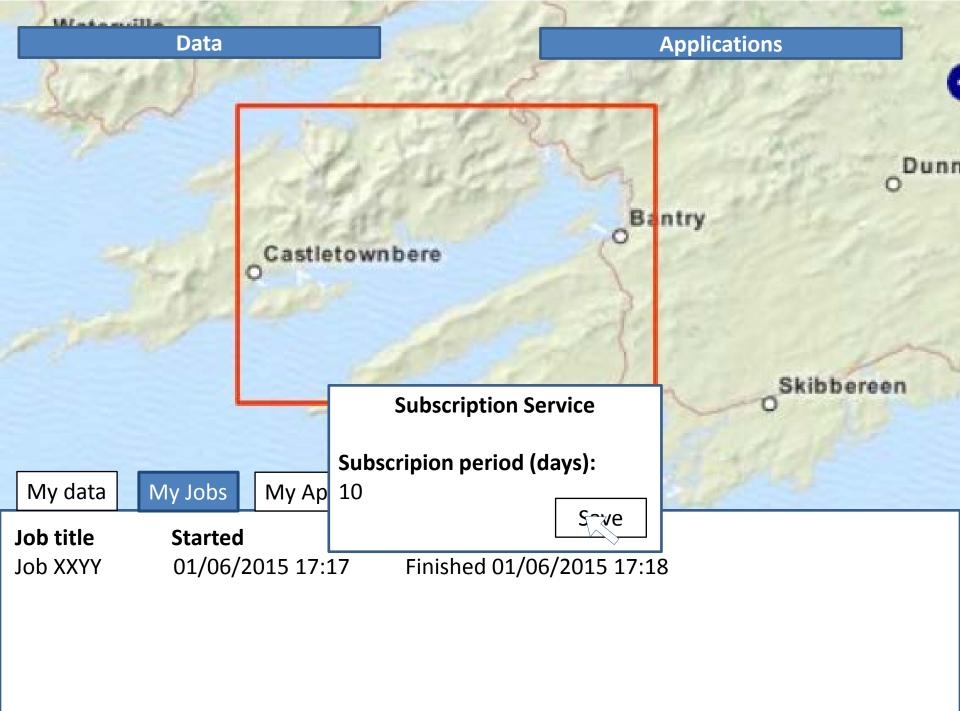
















Questions?



















