

Minutes

OneGeology Technical Implementation Group 2pm-6pm CET Tuesday 23rd May 2017

Venue

Offices of Austrian Geological Survey (GBA)

Vienna

Attendees:

- James Passmore (BGS – UK)
- Marcus Sen (BGS – UK)
- Tim Duffy (BGS – UK)
- Carlo Cipolloni (ISPRA - Italy)
- Martin Schiegl (GBA - Austria) ~ observer
- Christine Hörfarter (GBA - Austria) ~ observer
- Mark Rattenbury (GNS - New Zealand) ~ observer
- Ollie Raymond (GA - Australia)
- Eric Boisvert (GSC - Canada)
- Francois Robida (BRGM - France) ~ remote
- Steve Richard (USA) ~ remote (after lunch)

1). Introduction by chair Tim including background to changes to OneGeology governance and current board technical direction for next 4 years.

Tim announced that this is the last time he will co-chair the TIG on behalf of BGS as from 1st October 2017 he is retiring 75% (to approximately one day a week) but he will continue leading the OneGeology administration etc. as well as working on coordinating OneGeology/CGI/INSPIRE. By 1st October BGS will appoint James Passmore as the co-chair and onegeologyhelp team leader and be expected to lead going forward technical direction and support for OneGeology web data services going forward.

Francois was thanked for attending on a public holiday and representing the BRGM OneGeology Portal team.

Note that all formally contributing attendees (observers are the exception) represent organizations that are paid up Principal Members. Tomorrow is formally a OneGeology LOD workshop and as such non-members can be and have been invited to technically contribute.

OneGeology funding: IGC-35 decision was made that OneGeology would continue for another four years under its current funding regime until at least it is reviewed at IGC 36 in Delhi (March 2020).

Technical challenge: PM's (Australia, South-East Asia, Canada, the USGS...) want OneGeology to be the GLOBAL platform to deliver their web services.

Francois Robida (FR) talked about relationship of EGDI and other initiatives and infrastructures like OneGeology, EPOS, EMODnet. EGDI is an initiative of Geological Surveys of Europe, there are things that are quite different, things at the survey level, there are similar objectives as OneGeology, (like educating the people, and sharing best practices, but complexity of diplomatic system in Europe makes it almost impossible for the time being to say that EGDI is the European chapter of OneGeology). He will try to ensure that EGDI and OneGeology have similar goals and technical choices, but will remain formally separate. Partnership of European EPOS project is completely different from EGS and OneGeology consortium but services registered in EGDI will hopefully be automatically harvestable into EPOS (and OneGeology). EPOS scope is much wider in respect of contributors (not just geological surveys organizations). We should forget about the dream of a single infrastructure.

2). Outstanding issues from the last TIG meeting in Portugal (26-05-2015)

Outstanding issues from the last meeting were deemed to have been already solved unless they are still open issues on the portal issues bug reporting platform.

The nine open issues in the forge (<https://forge.brgm.fr/projects/onegeology-portal>) were discussed:

#16796 ~ misconfiguration of the OneGeology CSW catalogue URLs

New Action 1: James and Agnes to work together to resolve this CSW catalogue URL issue

Result: this issue (and related issue #17389) is currently resolved

#16387 ~ Add stats

BRGM kindly looking again on request by the OneGeology Board, for funding/marketing purposes, namely who is using what layers and services and from where. BGS has already got a handle on who is accessing the front page, based on analysis of access to one of the backdrops it provides to the portal, but this doesn't go far enough. What we need (and has formally been agreed will be added) is better stats.

Agnes expects to add this by the summer which FR thinks is before end of August.

#16610 ~ Undefined Area listing in the Find and Add OneGeology data layers / Geographic Area tab

Has been resolved, checked in the meeting on the portal to confirm.

16609 ~ Layers and coverages without the onegeology keyword are registered in the portal

Also resolved

Confusion of Forge attribution *Open but Resolved*.

New Action 2: The initiator of new issues on the forge to CLOSE issues that have marked Resolved once both sides are satisfied with that proposed resolution. In this case BGS needs to close #16610 and #16609.

#14040 ~ Double check that the INSPIRE variant of the age and lithology generated SLD request match the final agreed HTTP-URI's

We think that this is now resolved, though not marked as such.

We agree that we shouldn't now be supporting the old URNs used by the old OneGeology-Europe services.

New Action 3: FR to get Francois T to double check the old URN support has gone, and correct up-to-date CGI and INSPIRE HTTP-URIs are being used.

#13925 ~ Search by keyword (where keyword is a phrase) doesn't work

To look again if this is indeed possible, for example by using a set of double quotes to define a phrase, and not the individual words, or even a set of two or more phrases e.g. services marked with the "Harmonized Geology" keyword (a single keyword phrase from the list – there are many such two words phrases) should be findable (only) by specifying "Harmonized Geology", or indeed a set of such phrases such as "Harmonized Geology" + "Superficial deposits" and get results for only those phrases.

It was noted that searches are currently not case sensitive and this should remain.

Discussion on keywords used for thematic searches and suggestion it should be formalised as a CGI vocabulary, origin a number of European projects. – this will be raised at the following GTWG meeting on 27th May.

New Action 4: FR to check with his team again if it is possible to Search by keyword (where keyword is a phrase).

#13900 ~ Lambert Conformal Conic projection is not working correctly

For people who want greater Europe/EU required projection.

New Action 5: JP and FR to revisit the issue and report again (clarify) the issue(s) to both satisfaction.

#14324: SLD request to a MapServer service is broken

#13909: GeoSciML-Portrayal request to Brazil (GeoServer) is broken

SLD issues discussed. Australian portal has similar problems, solution there has been to create specific GeoServer/ArcGIS (special case SLD).

Ollie noted too that ArcGIS and GeoServer render transparency differently (so differences in SLD to cater for this).

There was world wide demand to get this finally sorted, restricted to the four variants identified, ArcGIS, MapServer, GeoServer (no workspace), GeoServer (with workspace).

It was agreed that as we were already using one keyword to express that a service layer was capable of responding to the portal SLD query and act upon it, the simplest practical solution was to teach service providers to use one of the 4 variants dependant on the software they use. Capture these 4 variants on registration at (keyword) portal, and use each to output the subtly different SLD query requests. We already have a keyword, so we could simply agree have four keywords instead,

The proposed 4 keywords are:

1). (Geosciml_portrayal_age_or_litho_queryable was the old one but this needs upgrading anyway due to the publication of GeoSciML-Lite 4.1 by OGC).

Geosciml_lite_age_or_litho_queryable_1 (for ArcGIS server software)

2). Geosciml_lite_age_or_litho_queryable_2 (for MapServer software)

3). Geosciml_lite_age_or_litho_queryable_3 (for Geoserver no workspace)

4). Geosciml_lite_age_or_litho_queryable_4 (for GeoServer with workspace)

The slight SLD variants to make all these work are documented in the forge by JP.

New Action 6: FR will discuss this proposed 4-keyword solution with Agnes/Francois T.

Ollie had a clarifying request on an SLD pattern to use in his portal:

New Action 7: James to send Ollie the pattern for OneGeology SLD

Done (as below):

From the cookbook:

http://onegeology.org/howto/1_4_1_5.html

`SLD=http://portal.onegeology.org/slds/20130628_1372432351566_OpenLayers.Layer.WMS_991.sld&`

from a request just now:

`SLD=http://portal.onegeology.org/OnegeologyGlobal/slds/20170525_1495722093140_OpenLayers.Layer.WMS_1165.sld&`

Where "20130628_1372432351566" and "20170525_1495722093140" are the date the SLD was generated.

3). Proposed New improved OneGeology portal – issues raised and explored with the TIG, final chance for feedback on suggestions including a look at the new GEOSS portal

BRGM have volunteered to create a new version of the portal this summer.

BGS is already reworking the technical services documentation and will rework the portal user guide documentation by the end of August also if the new portal is available by then.

New portal started as part of process of upgrading OpenLayers, part of the normal maintenance.

Feedback was requested from the OneGeology Board to be sent to FR by Friday 31st March, and two sets of feedback were received (Canada, and UK)

A stated aim of the new portal is trying to make the interface simpler.

Discussion on items from the UK feedback

Items 2 - When first opening link to portal it is zoomed in too much leaving out parts of the world (East Asia, Alaska, Australasia...).

The meeting noted that Agnes had earlier already agreed to fix this.

Item 3

a). Fit to extent button actually zooms out too much leaving too much wasted white space around. (see 2)

The meeting noted that Agnes had earlier already agreed to fix this.

b). Doesn't work (buggy) in Opera (Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36 OPR/43.0.2442.1144)

Discussion on supported browsers (GA have top four from current version to -2), Firefox only is supported in beta, but others will be supported after functionality has been finalised.

The meeting noted that Agnes had earlier already agreed to fix this. - once the version for firefox is finished (and have your agreement) we will work on other browsers compatibility.

Item 4

The portal help text obviously hasn't been updated for the new portal yet (BGS will update the help as soon as is ready to be released so that the new help matches the portal functionality) but even the old text is helpful for using it and so the "Help" link should be restored.

The meeting noted that Agnes had earlier already agreed to fix this.

Item 5

We think it is good you have kept tool tips. We like that you have switched from layers to datasets. Add OneGeology datasets, should become "Find and Add datasets" and keep the tooltip to "Click to add OneGeology datasets". "Automatic datasets" should be "Automatically displayed datasets"

The list of tools should be in the Top right hand side (as it's where the eye is drawn to), and the navigation tools should be on the right hand margin, similar to the GeoNetwork 3 map interface.

The displayed datasets window should be renamed (from Layers List) to "Displayed datasets properties".

The meeting noted that Agnes had earlier already agreed to fix these.

Item 6

The add external datasets tool needs to be have the ability to add OGC WCS. Agnes has already fixed.

Item 7

Link to catalogues should be retained (both the GeoNetwork Metadata catalogue and the GEOSS Discovery and Access Broker, perhaps as a fifth tool line "Metadata catalogues").

Euro-GEOSS portal, no longer used, GEOSS has changed its recommended CSW endpoint to <http://www.geoportal.org>

The meeting noted that Agnes had earlier already agreed to retain both links and use a fifth tool line "Metadata catalogues" and replace the URL with this new one.

Item 8

Understand that these days the zoom and pan interface using double clicks and +/- buttons and panning with drag is more common on other geographic websites but, particularly when seeing features on a geology map the ability to draw a bounding box round the feature of interest to zoom into it was convenient; not sure best answer for this.

The meeting noted that Agnes had already confirmed that you can still do that (shift + mouse), as it is doable in all the other similar geographic websites.

Item 9

When doing the location search and selecting a location you are taken to a much higher zoom level than with the current portal, which is too great to be useful for the general scale of 1g data. We need it to be like the current portal, for example searching for (Falkland Islands (Islas Malvinas) (Falkland Islands) in the current portal gives you a view of the islands, but in the new portal you get a view of some pixels.

The meeting noted that Agnes had earlier already agreed to fix this.

Item 10

Would like retention of KML (especially the WMS 1.3.0) save tool functionality, for use in external clients like Google Earth.

The meeting noted that Agnes had earlier already agreed to put this back.

Item 11

WMC / OWS context (like a workspace for sharing distributed services). GIN uses WMC.

BRGM agree that people do not know about WMC functionality in the portal and generally, so we have to better document, reviewed portals to see if WMS is supported (and found it wasn't) however other evidence suggests that companies (for example Envitia) do support WMC. Used to be just WMS but now supports WFS, but OGC successor (OWS Context) supports even more ~ video, feeds, pictures, to package up all information about for example an Earthquake, so support teams can have all the relevant data in one package.

New Action 8: FR to discuss with OGC, putting money towards getting an OpenLayers developer to put WMC content back into OpenLayers. The next day OneGeology workshop on LOD requested that for now (until OWSText was supportable) the OneGeology portal continue to support WMC output.

Item 12

Switching the projection doesn't seem to work as it does in the current portal. For example choosing "UKContShelf BGS 1:1M Seabed Sediments" and "GBR BGS 1:625k Bedrock INSPIRE Age" layers, in the current portal we can switch projection to Lat-Lon ETRS89 and see them in correct location in new projection. With the new portal, when we switch projection then the layers disappear; the bedrock one has a warning triangle in the layers list, the seabed sediments one doesn't.

The meeting noted that Agnes had already agreed to check this.

Item 13

Lost ability to centre on a particular lat-lon and select a particular map scale. We used this for reproducing queries and directing people to reproduce maps. Perhaps we could we reuse the search for location window, or else add a sixth tool?

OR: Having Lat/long display is good, (definitely useful) but live without search by lat long.

Scale display was mentioned as useful, though comment was made on the odd choice of scales presented in current portal. No decision as to whether zoom by scale should be kept was made.

Item 14 When adding layers by Geographic Area I think the list should start collapsed to top level regions (Africa, Antartica...) rather than partially expanded requiring scrolling to right place in many cases. This is the same with the current portal but there is less space for the listing in the new portal so it is even more important.

The meeting noted that Agnes had earlier agreed to see how they could improve the layout of this window.

Item 16 The layer details don't include DataURL and MetadataURL as they did previously (for example GBR BGS 1:625k Bedrock INSPIRE Age), please put back somewhere.

The meeting noted that Agnes had earlier already agreed to fix this.

ITEM 15 on viewing WCS was already sorted.

Items 17-20:

The redoing of Thematic Analysis tools to one button with 3 tabs to switch between is good. The buttons for lith stats and, to a lesser extent, full stats drop below the dialog box in IE, although OK in Firefox.

The type-ahead search for ages and lithologies is good.

The fact that full stats warns you about the zoom level before you can try a query is good.

Item 21 We got the GeoSciML download working OK but didn't get the stats to appear properly in the window in IE, although it was OK in Firefox. In IE the drop down box for Older Named Age, Younger Named Age, etc. kept resetting to Older Named Age.

The meeting noted that Agnes had earlier already agreed to check this.

Item 22 In both current and new portals we sometimes have messages about waiting for layers that haven't been selected loading even without automatic datasets on (haven't tried to examine details).

The meeting noted that Agnes had earlier already agreed to check this.

Item 23

We wonder if the old (several years ago?) service up/down monitoring layer can be put back into the portal alongside implementation of the forge issue 16387, the OneGeology board is looking forward to 16387.

Replace layers of broken services (generated at midnight?) layer that previously existed. FR: Difficulty to show on a map (especially where lots of overlapping layers) the availability of a map.

GA and GSC have or are building methodologies/systems for handling missing layers, that prevent their client/portal from constantly fire off GetMap requests to missing services. Also EGD I want to implement, where emails are sent to services (custodians) not up, and hidden (if constantly down).

GSC issues not mentioned in BGS comments

French support in GUI. Manual support dropped a while ago.

New Action: FR: to discuss with Agnes whether new portal will drop French language support.

Query (click on map):

- **Page format:** issues in page formatting and location calculation

- Possibly due to conflict re: Javascript and CSS (for details contact E.Boisvert/H.Julien)
- this causes incorrect calculation of x,y!! (because window size affected)
 - **Results Panel** (GFI): size of results panel is quite small
 - **Results:** are confusing; returns results for all visible layers, even if layer not clicked
 - Suggest display only valid results, and do not display others

French fonts not correctly supported in layer metadata.

New Action 9: FR: to discuss with Agnes whether new portal will drop French language support and to look at the above GFI (GetFeatureInfo) issues.

An observation: Check (again) that the portal javascript code is minified, as speed can be quite slow in Australia.

New action 10: Agnes' team to complete the agreed action/fixes above in section 3 and release the next draft version of the new portal – it was noted that this would not happen until well into summer 2017.

4). A review of OneGeology services metadata collection now and going forward including a review of what GEOSS collects and uses (19115 core)

GEOSS is a GEO system of systems, now 90% funded by ESA 10% by JRC. Mostly, satellite data (exabytes of it).

In 2011 OneGeology emailed as to whether wanted to join the GEOSS data core, all data providers were consulted and agreed that all OneGeology services could be considered part of a GEOSS core dataset. Now GEOSS is effectively dropping (reference) to the data core, as not many organizations populated it (the core) and it is not so relevant as the world has moved on. However still great global keenness (from second GEOSS data providers conference, Florence 19th May 2017) for OneGeology metadata records and services to still be available from OneGeology catalogue.

GEOSS needs access to the OneGeology CSW portal, it wants to continue to harvest from CSW if possible, otherwise a federated search, and can show some results (layers/coverages)

<http://www.geoportal.org> is the new GEOSS (ESA) metadata portal and the published link and interface from the OneGeology portal to GEOSS should be updated to this (the old Euro-GEOSS portal as currently, is no longer the to be used GEOSS portal).

GEOSS DAB (<http://www.geodab.net/>) updated discovery and access broker documentation.

Need to renew our relationship with GEOSS by re-registering the OneGeology Geonetwork CSW URL with Stefano Nativi and asking them to harvest at regular intervals and changing the link from OneGeology portal to GEOSS portal to the new URL www.geoportal.org.

GEOSS are now Offering their portal tools as an open source widget for including in other portals such as ours however we currently provide that functionality (and more with our GeoSciML specific query tools) , and GEOSS are also offering to hosting specific communities now using their infrastructure if a community lacks such functionality..

Similar harvesting of GeoNetwork catalogues in GA (demo by Ollie)

Discussed implications for required metadata, we just need to offer ideally in our records core ISO 19115 MD as before (as required by OneGeology 4 star+ services), as described in the cookbook. No requirement for services to have full ISO MD, stays as a requirement level 4 services.

New action 11: BRGM to Refresh GEOSS relationship, register new OneGeology CSW endpoint.

AOB

Discussed an item in minutes of last OneGeology board. The CGMW OneGeology MOU from 2007, action on FR by next OneGeology Board to speak to Philippe Rossi to renew agreement.

Discussion on openness of services, OneGeology will this summer better show how to enable simple feature WFS functionality, to allow download of data (as-shapefile, as-GeoJSON). Will also more clearly detail how to turn off this functionality for OneGeology for data providers who only want/need to expose WMS services and do not want to expose the underlying simple feature WFS service from which actual data downloads in formats such as shapefile are available.

New actions arising from the meeting:

New Action 1: James and Agnes to work together to resolve this CSW catalogue URL issue.

New Action 2: The initiator of new issues on the forge to CLOSE issues that have marked Resolved once both sides are satisfied with that proposed resolution. In this case BGS needs to close #16610 and #16609.

New Action 3: FR to get Francois T to double check the old URN support has gone, and correct up-to-date CGI and INSPIRE HTTP-URIs are being used.

New Action 4: FR to check with his team again if it is possible to Search by keyword (where keyword is a phrase).

New Action 5: JP and FR to revisit the issue and report again (clarify) the issue(s) to both satisfaction.

New Action 6: FR will discuss this proposed 4-keyword solution with Agnes/Francois T.

New Action 7: James to send Ollie the pattern for OneGeology SLD

New Action 8: FR to discuss with OGC, putting money towards getting an OpenLayers developer to put WMC content back into OpenLayers. The next day OneGeology workshop on LOD requested that for now (until OWSContext was supportable) the OneGeology portal continue to support WMC output.

New Action 9: FR: to discuss with Agnes whether new portal will drop French language support and to look at the above GFI (GetFeatureInfo) issues.

New action 10: Agnes' team to complete the agreed action/fixes above in section 3 and release the next draft version of the new portal – it was noted that this would not happen until well into summer 2017.

New action 11: BRGM to Refresh GEOSS relationship, register new OneGeology CSW endpoint.

2017 ROADMAP

2017.1 version : September

Type	Action
Bug	Javascript minified
New Feature	[item 11 + OpenLinkedData, action 8] Export OWSContext / WMC
Bug	[item 12] Projection switch issue
Bug	[item 9] Zoom level when selecting location
Bug	[item 2&3] Initial zoom and zoom to extend behavior
Bug	Test IE, Chrome, Opera
New Feature	[Item 4&7] Help and catalog link
New Feature	[item 7, action 11] Refresh BRGM and GEOSS relationship
New feature	[item 10] Export KML
New feature	Map layer stats (#16387)
New feature	Search by keyword (#13925)
New feature	[item 5, 14, 16] Design and labels changes

2017.2 version : December

Type	Action
Bug	[test NRCAN, action 9] Get Feature Info issues
Bug	[item 22] Layers loading behavior
Bug	[action 6] SLD Geoserver / MapServer (#13909 , #14324)
Bug	Projections issues (#13900)
New Feature	[item 13] Lat-Long / scale select
New Feature	[item 23] Monitoring services
New feature	[action 3] SLD tool : INSPIRE URI (#14040)