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OneGeology Workshop

The Next 10 Years of OneGeology

(With particular focus on North American involvement)

DATE: 15 June 2018

TIME: 11:00

VENUE: Geological Survey Canada, Vancouver offices

Matt Harrison (MH)	Director of Informatics, British Geological Survey
Carina Kemp – Chair (CK)	Deputising for James Johnson – GeoScience Australia
Francois Robida (FR)	Deputy Head of Division, Info Systems and Technologies Division, BRGM
Dr Maria Glícia da Nóbrega Coutinho (MG)	Head International Affairs Office, CPRM – GS Brazil
Dr Masahiko Makino (MM)	Assistant Director General, Geological Survey of Japan
Tim Duffy (TD)	OneGeology Project Manager, British Geological Survey
Virginia Hannah (VTH)	OneGeology Administration Manager, British Geological Survey
James Passmore (JP)	Technical Contact – British Geological Survey
Dr. Shinji Takarada (ST)	Technical Contact Geological Survey of Japan (Deputy)
Nicolas Mauroy (NM)	Technical Contact - BRGM
Christelle Loiselet (CL)	Technical Contact - BRGM
Hiran Dias (HD)	CPRM
Patricia Duringer Jaques (PJ)	CPRM
Harley Thorliefson (HT)	AASG
Michael Sexton (MS)	GeoScience Australia
Ollie Raymond (OR)	GeoScience Australia
Yong Zhi Wang (YZW)	CGS JLU China
Stephen Richard (SR)	USGIN
Michaël Beaufils (MB)	BRGM
Christelle Loiselet (CL)	BRGM
Mauroy Nicolas (MN)	BRGM
Urszula Stępień (US)	PGI
Kambada Mhopjeni (KM)	GSN
Shannan Peters (SP)	Macrostat research Group Wisconsin University
Kelsey Macormack (KM)	Alberta Geological Survey
Mark Rattenbury (MR)	GeoScience New Zealand
Hazen Russel (HR)	GSC

1. Welcome

MH welcomed everyone to the OneGeology workshop and thanked them for attending. He gave a brief outline of the purpose for the workshop, which is to meet and to communicate with the wider OneGeology members within the Canadian and North American regions, similar to the meetings held in Brazil and Africa during 2016. MH continued to say this is a great opportunity for us to learn more about the relationships within the provinces, states and territories and to determine if OneGeology can play any part in facilitating between them and to learn more through discussions and presentations. He said that it was unfortunate that not all of the North American members could make it to the workshop but he felt that there was enough representation to create an interesting discussion. MH outlined that the second part of the day was to focus on future developments in OneGeology and potential future developments.

2. Session 1: Regional Strategies for North American Involvement in OneGeology

- Harvey Thorliefson (HT) State Geologist Minnesota:
[Association of American State Geologists](#) (ASSG)
 - HT had been involved with OneGeology from the very beginning but had stepped aside when he became the CEO of the Minnesota Geological Survey but said he is now very much back on board. He gave a brief description of how things worked within the AASG and what his role was. He advised that there is \$50M per year to spend on Geological mapping in the whole of the USA but anything that is requested from the USGS has to go through congress so can take a lot of time for things to progress.
 - He reported on the National Geological Mapping Act, which is a law to specify that the USA is committed to building a Geological map database **using international standards**.
- Steve Richard (SR) Treasurer [US Geoscience Information Network](#)
 - SR explained that the USGIN was a collaborative initiative map catalogue, which is displayed online.
 - USGIN are currently working with the individual states to deploy OneGeology services and currently have 9 in total and looking for future opportunities going forwards. SR reported that USGIN had approached USGS to seek funding to take this further but this hasn't gone anywhere as yet. TD requested that SR ask John Brock if the current maps could be added to the OneGeology Portal.
 - HT reported that there is a new layer of geoscience data within the USGIN database, that is compliant with the Gems database and could be shared with OneGeology. He said there is currently no guidance as to when this will be available but already many states were making good progress with this and he felt it would be appropriate for OneGeology to work with these states. The State Geological annual meeting is moving towards Gems standards for geological mapping

ACTION WS.01: SR to ask John Brock if the current USGIN maps could be added to the OneGeology portal.

ACTION WS.02: SR to approach the relevant USGS contacts regarding the minerals programme 1:2 Geology product that could be added to the OneGeology portal as 2* compliant.

ACTION WS 03: BB to follow up on the actions WS.01 & WS.02 and report back to the next meeting in the autumn.

- Kelsey MacCormack (KM) Director Mapping and Modelling - [Alberta Geological Survey](#) (AGS)
 - KM gave a presentation outlining the work carried out by the AGS including their mapping and modelling, geological frame work portals and their current focus, which is on 3D. (see presentation)
- Hazen Russel (HR) [GSC Ottawa](#)
 - HR followed on from the AGS presentation by saying that Ottawa and GSA have been working very closely on groundwater suites for the last 25 years, BB added that the 2D maps will be realised soon. FR advised that OneGeology would be very supportive of any 3D developments and would welcome all new contributions we could use. However, standards and Artificial Intelligence would need to be agreed and he felt that the best place to do this would be through OGC.

ACTION WS.04: AGS will work with OneGeology technical, to get their services up and running. JP and KM to encourage Newfoundland and Labrador and others, to republish their services along with N. West Territories and BC.

General Discussion: there was agreement around the group that working towards international standards benefits, should be realised by all Geological Surveys. Surveys should want to be effective, efficient and knowledgeable by being fully compliant with international standards and being the hub where information is sought. That being compliant will make sharing and using information between our communities much easier.

3. Session 2: OneGeology The Next 10 Years

- **3D Panel Session; forward looking ideas and topics**

- Laurent Ailleres (LA) – Monash University: 3D LOOP Principal Investigator presented the 3D LOOP project to the group. He said that a lot of input is required to help take the project forward. The Australian Research Council grant has been awarded it had 7.5 permanent members of staff allocated to the project. The programme is not set in stone and suggestions from individual organisations would be greatly received.
- KM said that AGS would be fully supportive of the LOOP project and seems to be everything they are looking for. It is strategically in line with Alberta's future vision.
- HT said that this is the right direction for OneGeology to be heading towards. The aim is to map the earth in all forms. FR added that Geological Surveys seem to be redesigning their workflows on how to deliver knowledge and trying to describe this in an informative way.
- LA said he was pleased that everyone seemed to have the same vision but advised we need a plan to realise this. He said that all the data will need to have an identified data structure, how this is achieved will be discussed during the kick off meeting which is taking place in Bermagui, NSW, all are invited to attend this and he will share information via Carina Kemp.

Comment [LA1]: So, I would increase this to 7.5 as 4 new positions are available from the grant. The 3.5 represents current staff members' time committed to the project.

General Discussion: There was lots of positive and encouraging discussion for the 3D LOOP project around the room. MH/CK advised the group that it was agreed in the OneGeology meeting, which was held yesterday, that OneGeology would act as advisors for the wider OneGeology membership.

- **Shanan Peters (SP)** University of Wisconsin - [Macrostrat Platform](#)
 - SP presented the Macrostrat Platform project to the group (see presentation) showcasing its benefits and capabilities with a view to collaborating with OneGeology, to populate the scaffolding that is outlined in the presentation.
 - MH suggested that we should have a joint research proposal for OneGeology to work with Macrostrat, which we could send out to members to find out what their requirements would be.

General Discussion: Lots of discussion and ideas were bounced around the room and LA identified that this was completely in line with the vision of the LOOP project.

ACTION WS.05: MH to work with a dedicated group and prepare a simple draft collaborative agreement to present at the next Board meeting in the autumn. LA to update the current Loop proposal to include suggestions from OneGeology members.

- **Linked Data**
 - JP explained that Linked Data usually means finding and accessing data, generally using portals and web services such as Google, via links with services in the background. It exposes data using a URL hiding the fact that these are through web services. JP suggested that we could possibly introduce a 3 tier store.
- **Mineral Exploration Users** – Laurent Ailleres (on behalf of Mark Jessell)

LA presented the work carried out by Mark Jessell and his team on the Western Africa Exploration Initiative (WAXI) geodynamic project in Africa. During the presentation the WAC mineralisation map was shown, OneGeology would be very interested in displaying this data. Ollie Raymond asked how the information became accessible. LA said it's currently from download on the AMIRA International website for current sponsors and it may be possible that OneGeology could become a brokerage/platform for delivering the data once the confidentiality period has expired.

ACTION WS.06: JP to approach Mark Jessell about OneGeology displaying the data shown in the WAC mineralisation map.

- **Potential Science Strategy.**

CK explained that during the board meeting yesterday there was lots of discussions around the possibility of formalising a Science Strategy for OneGeology. The Board were in agreement and have authorised work should begin to start to look at what a strategy could look like. There was lots of discussion around this subject and the group agreed this was a positive way forward.

- **Review of Actions**

ITEM	ACTION	LEAD	DUE DATE
WS.01	SR to ask John Brock if the current USGIN maps could be added to the OneGeology portal.	SR	Oct 2018
WS.02	SR to approach the relevant USGS contacts regarding the minerals programme 1:2 Geology product that could be added to the OneGeology portal as 2* compliant.	SR	Oct 2018
WS.03	BB to follow up on the actions WS.01 & WS.02 and report back to the next meeting in the autumn.	BB	Oct 2018
WS.04	AGS will work with OneGeology technical, to get their services up and running. JP and KM to encourage Newfoundland and Labrador and others, to republish their services along with N. West Territories and BC	JP	Jan 2019
WS.05	MH to work with a dedicated group and prepare a simple draft collaborative agreement to present at the next Board meeting in the autumn and LA to update the current Loop proposal to include suggestions from OneGeology members.	MH/LA	Oct 2018
WS.06	JP to approach Mark Jessell about OneGeology displaying the data shown in the WAC mineralisation map.	JP	Oct 2018