

OneGeology Operational Management Group Fifth meeting

9:15-18:00 23 August 2010
Federal Ministry of Economics and Technology,
Scharnhorststr. 34-37
10115 Berlin (Berlin Centre)
Germany

A G E N D A

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IJ: Ian Jackson; FR: Francois Robida; KA: Kristine Asch; LA: Lee Allison; AT: Axel Tcheheumeni; JB: John Broome; HT: Harvey Thorleifson.
OneGeology Secretariat, July 2010

OneGeology Operational Management Group

Meeting 5: 23 August 2010

1. Welcome, introduction and agenda

Background:

Welcome to the Federal Ministry of Economics and Technology.

Brief introductions; a list of all delegates, observers and the secretariat is attached (OMG 05/1).

A draft Agenda was circulated for comment. The final version contains the points to be discussed by the Operational Management Group.

Paper #: (agenda) and OMG 05/1

Action:

The Chair will run through the Agenda and the Operational Management Group (OMG) are asked to **DISCUSS** and **AGREE** it, the priority of items, and the proposed timings.

Operational Management Group attendees and the Secretariat with their affiliations

Country	Name	Representing	Organisation
Argentina	Asato, Gabriel	(SEGEMAR)	Servicio Geológico Minero Argentino
Australia AUS	Raymond, Oliver	GA	Geoscience Australia
Australia AUS	Simmons, Bruce	GV	Geoscience Victoria
Belgium BEL	Declercq, Pierre-Yves		Geological Survey of Belgium
Canada CAN	Broome, John?	NRC	Earth Science Sector, Natural Resources Canada
Czech Republic CZE	Tomas, Robert	EC-JRC / Czech Geological Survey	Czech Geological Survey
France FRA	Robida, Francois	BRGM	Bureau de Recherches Géologiques et Minières
France FRA	Truffert, Cathy	BRGM	Bureau de Recherches Géologiques et Minières
Germany DEU	Asch, Kristine	BGR	Federal Institute for Geosciences and Natural Resources (BGR)
Ireland	Carter, Mary		Geological Survey of Ireland
Italy ITA	Demicheli, Luca	ISPRA	Geological Survey of Italy - Istituto Superiore per la Protezione e la Ricerca Ambientale
Japan JPN	Wakita, Koji	AIST	Geological Survey of Japan (GSJ)
Netherlands NLD	van der Meulen, Michiel	TNO	Geological Survey of the Netherlands
Netherlands NLD	van Daalen, Tirza	TNO	TNO
Poland POL	Stepien, Urszula	PGI	Polish Geological Institute
Romania	Tudor, George	GIR	Geological Institute of Romania
Slovenia SVN	Komac, Marko	1G Steering Group	Geological Survey of Slovenia
Spain ESP	Quesada, Cecilio	IGME	Instituto Geológico y Minero de España (IGME)
Spain ESP	Pérez Cerdán, Fernando	IGME	Instituto Geológico y Minero de España (IGME)
Turkey TUR	Alkeveli, Tolga	MTA	General Directorate of Minerals Research and Exploration Institute of Turkey (MTA)
United Kingdom GBR	Jackson, Ian	1G Executive Secretary	British Geological Survey
United Kingdom GBR	Booth, Katy	1G Secretariat	British Geological Survey
United Kingdom GBR	Duffy, Tim	1G Technical Working	British Geological Survey

		Group	
United States USA	Thorleifson, Harvey	University of Minnesota	University of Minnesota, Minnesota GS
United States USA	Orndorff, Randy	USGS	US Geological Survey
United States USA	Steve Richard or Lee Allison	GIN	Arizona Geological Survey
Supporting organisation	Pulvera-Uzarraga, Marivic	CCOP	Co-ordinating Committee for Geoscience Programmes in East and Southeast Asia
Supporting organisation	Representative TBC	Geoparks Network	
Supporting organisation	Tcheheumeni, Axel	YES Network	

OneGeology Operational Management Group**Meeting 5: 23 August 2010****2. Minutes and Actions from last OMG meeting (Buenos Aires)****Background:**

The agreed minutes and action list from the previous meeting are attached.

Paper #: OMG 5/02.

Action:

The OMG are requested to provide an **UPDATE** for their appropriate actions.

OneGeology Operational Management Group Meeting 4
SEGEMAR Buenos Aires
2nd - 3rd July 2009
Minutes

Attendees:

Name	Country	Representing	Organisation
Alcántara, Pedro	Argentina	SEGEMAR	Servicio Geológico Minero Argentina
Allison, Lee (LA)	USA	AASG, GIN	Arizona Geological Survey
Asato, Gabriel (GA)	Argentina	SEGEMAR (observer)	Servicio Geológico Minero Argentino
Asch, Kristine (KA)	Germany	BGR	Federal Institute for Geosciences and Natural Resources
Booth, Kathryn (KB)	UK	OneGeology Secretariat	British Geological Survey
Broome, John (JB)	Canada	NRC	Natural Resources Canada
Cornejo, Paulo (PC)	Chile	SERNAGEOMIN	Servicio Nacional de Geología y Minería
Correa, Martha R (MC)	Ecuador	SGN	Servicio Geológico Nacional
DeBree, Floris (FdB)	Netherlands	TNO	Geological Survey of the Netherlands
Gana, Paulina (PG)	Chile	SERNAGEOMIN	Servicio Nacional de Geología y Minería
Goncalvez, Joao Herniques	Brazil	CPRM	Serviço Geológico do Brasil
Jackson, Ian (IJ)	UK	OneGeology	British Geological Survey
Mendia, Jose (JM)	Argentina	SEGEMAR (observer)	Servicio Geológico Minero Argentina
Page, Roberto (RP)	Argentina	IGRM (SEGEMAR)	Servicio Geológico Minero Argentina
Pérez Cerdán, Fernando (FPC)	Spain	IGME	Instituto Geológico y Minero de España
Riccardi, Alberto (AR)	Argentina	IUGS	International Union of Geological Sciences
Robida, Francois (FR)	France	OneGeology	Bureau de Recherches Géologiques et Minières
Schobbenhaus, Carlos (CS)	Brazil	CPRM	Serviço Geológico do Brasil
Simons, Bruce (BS)	Australia	GSV (observer)	GeoScience Victoria
Stepien, Urszula (US)	Poland	PGI	Polish Geological Institute
Munoz Tapia, Santiago (SMT)	Dominican Republic	SGN	Servicio Geologico Nacional, Direccion General de Minería
Marin, Graciela (GM)	Argentina	SEGEMAR	Servicio Geológico Minero Argentin
Thorleifson, Harvey (HT)	USA	AASG	Minnesota Geological Survey
van Daalen, Tirza (TvD)	Netherlands	TNO	Geological Survey of the Netherlands

Apologies:

Luca Demicheli (ISPRA - Geological Survey of Italy), Dave Soller (United States Geological Survey), Koji Wakita (Geological Survey of Japan), Cathy Truffert (BRGM), Robert Tomas (EC Joint Research Council)

1. Welcome and Introductions (IJ)

Ian Jackson (OneGeology Executive Secretary) thanked SEGEMAR for hosting and organising the meeting. Alberto Riccardi (President of IUGS) thanked OneGeology for the invitation to this meeting and the opportunity to learn more about the initiative and its progress. He fully supported OneGeology and offered assistance wherever possible. He noted that his understanding of the relationship between CGI and OneGeology (1G) had been helped enormously by his attendance at the OneGeology and CGI meetings.

IJ introduced the agenda and the success criteria for the meeting were agreed as follows;

- To ensure we all understand where OneGeology is at the moment and especially in South America
- To raise, discuss and plan to solve any problems or issues
- To agree on tasks and actions for the next 12 months and who will take responsibility for them.

IJ provided a brief overview of OneGeology to date.

2. Welcome from SEGEMAR

Pedro Alcántara welcomed the attendees to SEGEMAR and Argentina.

3. Agreement of agenda

All agreed the agenda with minor amendments to the schedule

4. Overview of Minutes and Actions from the Oslo meeting (JB)

All actions from the Oslo meeting have been completed.

5. Status & progress of OneGeology - Updates

5a. Operational status

IJ provided a brief overview of the current status of the initiative: OneGeology has been an astounding success thanks to the work of a global team. It is successful both technically, in that it is breaking new ground in the way geology is delivered on the web, and in the way that we communicate with the wider community. It has also been successful in raising the profile of geology and its importance to society. 106 countries are currently participating - approximately 75% of the land surface of the world. We are looking to increase the number of countries that are actually serving data. South America set a good example and the region was one of the first to serve data to the portal. In order to initiate and progress the project governance was not prioritised at the inception of OneGeology. We now recognise the need to establish formal governance in order to sustain the success. A Steering group has now been set up and they met in April in Paris. The remit of the Steering Group is to deal with strategic issues and policy. Details of their business are documented in the papers in agenda item 6. Progress has also been good at the regional level, e.g. GIN, OneGeology-Europe, which will be reported in agenda item 5d.

5b. Technical Status

François Robida provided a brief overview of the technical status of OneGeology. Participants serve the data from their own servers using WMS or WFS. Initial data was served through WMS, however, some organisations are now moving to more sophisticated WFS. The data can be used in the portal but also in desktop GIS or other portals. The portal is used to display the data and show all the layers. Cookbooks are available to explain how to serve data using WMS and WFS using GeoSciML. The portal has had 450,000 visits in six months. 55 countries are now serving 140 datasets. This has increased from around 30 countries in Oslo last August. A new version of the portal was launched in early June; this included updates and resolved problems with internet browser compatibility. It is based on open source principles with an improved user interface. Further developments due by the end of 2009 include a catalogue of services to OGC standards. The cook books will also be updated to integrate new WMS WFS tools as well as incorporating user feedback. The Technical Working Group defines standards for OneGeology technical specifications, delivers cookbooks and provides technical support, it meets twice a year and the next meeting will be in Quebec. The Technical Working Group has drawn up ToR's and comments are welcome (copies were distributed). OneGeology believes it is essential to maintain good links with external bodies such as OGC, CGI and IUGS and INSPIRE and SDI (Spatial Data Infrastructure) technical initiatives.

Discussion of operational and technical status;

Carlos Schobbenhaus noted that South America are doing well and 40% of the countries or 75% of the total area are serving data but there is a big gap in Africa. CS enquired about what will happen when all countries are serving data – what next? IJ responded that the contribution of S American countries to OneGeology so early was a big factor in its success. Two possible ways to take OneGeology forward are 1) in harmonising the data internationally (something catalysed by

OneGeology in some regions) and 2) in serving higher resolution data e.g. BGS is likely to include 50K data in its offering to OneGeology. Harvey Thorleifson emphasized what a success OneGeology has been but that we should not be complacent and keep working on harmonisation and enrichment of content and detailed mapping. Roberto Page noted that many have still not heard of OneGeology, therefore this should be reflected in the success criteria. We need to measure success by outcomes and who is using the data. Floris de Bree raised the issue of focusing too much on one theme (e.g. geology). Should other themes be introduced? The Success Criteria should also be written with sharpness and relevance. IJ welcomed improvement and sharpening of the Success Criteria and it was agreed to discuss this further in the later agenda item 8d.

5c. OneGeology-Europe

Kristine Asch provided an overview of OneGeology-Europe.

OneGeology-Europe is a European Commission eContentplus funded project (2.66 million Euros), involving 20 participating countries and 29 partners. The project will create geological data specifications for Europe supported and promoted by EuroGeoSurveys, and will work with the drafting team for INSPIRE committees. Data specifications are well progressed. Challenges include defining the vocabularies and defining and implementing use cases. Harvey Thorleifson stated that we should look at regional models and consider what has been successful in each and what we can learn from each other. North America has State meetings, country and tri-country structure. What have been the most significant progress points in Europe and in N America? For example zooming through scales which scales are progressing and how? We should focus on what have been the ingredients of success and what should be the future milestones?

5d. OneGeology - North America (GIN)

Lee Allison provided an update on GIN (Geosciences Information Network), a State geological surveys partnership (i.e. in many ways a OneGeology-US), working very closely with OneGeology-Europe and tremendous collaboration is happening to ensure the two projects are fully compatible. There are thousands of databases in the US but they aren't interoperable and this is a priority. 1:1M data and higher resolution data is the preserve of the state geological surveys in the US so they are taking the lead in this initiative. They will use the same metadata standards and catalogues alongside the USGS national catalogue so all will be interoperable. GIN is developing lots of collaboration and partnerships. Arizona's 1:1m map is served to OneGeology and they have served 1:24k data also. They are teaching each of the other state survey's to do the same and hope that in the next few years all this data will be available to OneGeology. The Department of Energy have given them \$5m to show Geothermal information for the private sector in the US. A private company which shows oil companies how to view all their internal and external data in one place have added OneGeology as a layer in this system. This is an example of a successful outcome (vide R Page comment). ESRI are developing a data model specifically for geology data and it will be compatible with GIN and OneGeology. US Dept of Energy are making further funds available for this type of initiative.

Regional Updates

Canada

John Broome provided a brief overview of progress in Canada. Here the geological survey (within ESS/NRC) is contributing the national map and several provinces including Manitoba are contributing their data. NRC are hosting the next OneGeology Technical Working Group meeting. NRC has started a major mapping project of the Arctic region of Canada using new workflows including GeoSciML. This will be provided to OneGeology when complete.

Argentina

SEGEMAR have been working with neighbouring countries and this continues a long tradition in S America. Many products already in existence for example their 1:1m map of S America and a map of mineral resources including GIS and databases. Integrated maps of Chilean and Argentinean Patagonia are being developed. Mapping also involves Bolivia. It was noted that Uruguay wished to attend this OneGeology meeting but could not make it.

Brazil

A presentation on the situation in Brazil (CPRM) and the overall S American situation was given by CS. Brazilian data has been available from early in the OneGeology project. Argentina, Chile, French Guyana and Suriname are also serving data but there remain countries in S America which are only participants (Colombia, Ecuador, Peru and Venezuela). Moreover, Bolivia, Guyana, Paraguay and Uruguay are not yet participating in OneGeology. National geological map scales varies from 1:5M to 1:0.5M in several formats: paper, raster and vector. Maps of Brazil served to the OneGeology Portal are already available in the GeoSciML format. In addition to ongoing CGMW South American projects at 1:5M scale (tectonic and geological maps), there is a project at 1:1M scale in progress under the umbrella of ASGMI-CGMW. The aims are the scientific harmonizing of geological data and the exchange of knowledge of geo-processing technologies between countries (GIS-South America, 1:1M). The South American 1:1M project represents a contribution to OneGeology at a more advanced stage.

Chile

Paulina Gana presented an overview for Chile. Chile has two layers in the portal and their system is based on ArcIMS. This is not based on OGC standards so they have had to learn a new system OGC compliant using the cookbooks). This has involved solving many problems. Technical compliance is most important for them.

Dominican Republic

Santiago Munoz Tapia presented an overview of work in the Dominican Republic. They have a project funded by the EU in thematic maps including geomorphology and mineral resources and geotechnical maps at 1:50K scale. The first geological maps were produced with the help of BGR in the volcanic areas and in the west at 1:100K scale. There are about 35 maps at 1:50k scale, the new project will finish the country at this scale. The maps are hosted by the Spanish Geological Survey and served by WMS to the portal. The data will be available to the OneGeology portal in the next two weeks and will also be available in KML format.

Ecuador

Martha Correa presented an overview for Ecuador. Ecuador are working towards serving their data in the OneGeology portal, they are looking at technology, capacity and training in order to achieve this. They look forward to gaining expertise from such an international project. They are working with Peru at a 1:500K scale to create a map. Ecuador has a 1:1m map in a GIS prepared with the help of BGS. Due to then being part of the Ministry of Resources, approval is needed to serve the data and they are in the middle of a reorganisation which is complicating the matter.

ASGMI

Roberto Page emphasised the difficulties currently experienced by South and Central American countries. The continent does not have the resources of OneGeology-Europe or GIN but the nations would welcome more opportunities for training and technical expertise.

Australia

Bruce Simmons presented an overview of progress in Australia. They are currently delivering 1;1m and 1:2.5m scale data. Geoscience Victoria is using 1:50k WMS and WFS as a test case and the other States are waiting to see how this works and if the portal can handle all the extra detail this entails. Australia has been very active in producing catalogues and progressing the semantic discussions. Finally Australia have been extending the work into the Earth resources domain which they will present to the European group later this year and see how it fits with INSPIRE.

Discussion: Why do some countries not participate?

Guyana, Uruguay, Paraguay and Bolivia are the missing countries in S America. Nations seem willing to join but often there is difficulty locating the right people or the contact people change jobs. SEGEMAR are willing to help assist here. KA - maybe technical cooperation projects which Germany has with Paraguay should be used to introduce OneGeology? JB - Can we narrow down the problem? Is it availability of data, technical issues or IPR? RP - none of these things, it's finding one person in

each of the organisations to take responsibility and commit to involvement. Paula Cornejo - these countries think that OneGeology is so far away and they don't know how they can contribute. She suggested we should have an ambassador from OneGeology to each of these countries connected to a technical person or someone who has been there a long time and knows what data they have. Don't go to the head of the survey as they change frequently. Who should be the ambassador? - Not a South American but someone from the technical team who can really help them actually get the data live (others including Chile found it difficult to understand how to do this). FR - Could we do some training advanced and basic GeoSciML? PC - It's difficult for these people to travel so you need to go to them. RP - Spain has training centres. Fernando Perez Cerdan - the key is GeoSciML, I think we need more training, closer contact between technicians and GeoSciML experts. The IFE Spanish centre of international cooperation provides training. The next training course is in Bolivia and they also have other centres around the Spanish speaking world; this is a possible route to achieving our training and wider goals.

ACTION 4.1: IJ and FR, in discussion with RP and FPC - put forward a strategy on how to address the participation issue, with training as a central part of this strategy.

6. Overview and results of the Steering Group meeting

IJ provided an overview of the recent Steering group meeting, outlining the 6 continent model that has been adopted and the representatives, (see paper 4.6 of the agenda papers for further details). The South American representative was unable to attend. Participants from the South American countries agreed to discuss this issue further outside this meeting.

ACTION 4.2: All S American delegates - discuss the representation on the Steering Group and let IJ know the outcome

The Steering Group had a forthright discussion on governance and recommended OneGeology become incorporated as a not for profit organisation (such as IYPE). They also recommended there should be an additional separate funding foundation. On a separate issue, an offer has been made by ESRI to provide free/discounted software. This offer and its conditions will be refined and copied to the OMG and then to the Steering Group. The next meeting of the Steering Group will be in New Zealand in April 2010.

(Day Two)

7) Introduction and review of Day 1

JB gave an overview of the previous day's discussions and progress and outlined the agenda for day two.

8) Discussion and Implementation items

a) Future governance of OneGeology

IJ provided an overview of the issues. The future governance is very important for the sustainability of OneGeology. The Operational Management Group is equivalent to an executive, they are not fixed and representation is voluntary. The Steering Group had recommended that OneGeology becomes incorporated (similar to IYPE) with a separate funding foundation. The secretariat was now working on defining the options for these fully. This will be circulated to the Operational Management Group for their approval prior to submission to the SG RP asked how long will OneGeology last? Is it a fixed term project or an ongoing initiative? IJ responded that the aspiration is that OneGeology is a sustained and an ongoing venture. It has a valid remit which should be continually reviewed and updated to maintain momentum.

ACTION 4.3 (Steering Group action also): IJ - define the options for incorporation and circulate to OMG for comment prior to outlining options for Steering Group.

It was commented that OneGeology must maintain good connections with IUGS without being tied to the same agenda. It was recommended that OneGeology takes a watching brief on the progress of ICOGS but should remain clear of political problems that ICOGS may have.

The process of incorporation needs to take place but care is need in its formulation so that it allows flexibility and does not prevent participation of willing nations through over-complicated or an

overly formal sign-up procedure. The natural tensions in the aims of “institutionalisation” and flexibility were acknowledged.

Funding and Sponsorship

This is a difficult issue with good arguments and strongly held views on both sides. OneGeology has already received an initial offer of “free/discounted” software and training from ESRI. Once ESRI have finalised their offer IJ will circulate to the OMG for comment.

ACTION 4.4: IJ - finalise ESRI offer with them and circulate to OMG for comment prior to outlining options for Steering Group

b) Relationships with other bodies

JB summarised his paper and emphasised the importance of establishing relationships with other organisations and ensuring synergies are promulgated. He outlined the current relationships OneGeology has made and the necessity to allay fears that OneGeology will overlap with their core missions. That both UNESCO and CGMW are represented as ex-officio members of the Steering Group is an excellent development. In relation to questions on marine data, Kristine Asch noted her links with IODP and will attempt to assist in improving the inclusion of offshore geology. KA will attempt to follow up these links with her key contact in IODP, Chris Jenkins.

ACTION 4.5: KA – contact Chris Jenkins to attempt to get more offshore (ocean) data into OneGeology

Francois Robida is now on the Board of the Open GeoSpatial Consortium (OGC) and is the OneGeology contact with OGC; he will follow up further links.

ACTION 4.6: FR – maintain links with OGC and keep OMG informed of significant developments

The communication channels between regional coalitions and the Steering Group representatives needs to be clarified with the Steering Group representatives.

ACTION 4.7: IJ – seek clarification from Steering Group members as to how they are conducting their communication (in/out) within their regions/continents.

JB agreed to update the ‘relationships with associated external bodies’ paper and produce a diagrammatic portrayal of OneGeology and its relationships. These should be published, possibly in the IUGS news bulletin and Episodes. Alberto Riccardi agreed to review this paper.

ACTION 4.8: JB – produce paper and diagrammatic representation of OneGeology relationships

c) Intellectual Property Rights (IPR)

JB introduced the paper 4/8b. Lee Allison queried how the data retains information on ownership once it has been downloaded. JB stated that it is up to each country to attribute their data to include this. Floris de Bree stated that in the Netherlands a new law for subsurface data is currently being constructed which may be helpful and he will forward this to OneGeology for information when it is available.

ACTION 4.9: FdB - circulate new Netherlands law to OMG when available

IJ noted that there is advice available on the OneGeology website outlining how to protect your IPR. FPC agreed to translate this into Spanish and make it available.

Action 4.10: FPC - translate OneGeology IPR advice into Spanish and make it available to OneGeology secretariat for inclusion on the website.

d) Success Criteria

FR went through the current list of Success Criteria. All were asked to keep the OneGeology secretariat up to date on their regional activities, papers conferences, etc. Please email onegeology@bgs.ac.uk with updates.

ACTION 4.11: All – provide OneGeology secretariat with information on regional activities, papers conferences, etc

LA is the information editor for EOS and as such, formally invited participants, particularly the South American delegates, to submit articles. LA offered to take responsibility for OneGeology exhibitions in the US through the affiliation with GIN.

ACTION 4.12: LA – ensure OneGeology has a presence at as many US conferences and exhibitions as possible

RP emphasised the need for more explicit criteria. He suggested that these might include: evidence of institutionalisation established in each nation; linking with other organisations; numbers of real end user; success in funding OneGeology. BS suggested that extra criteria for including federations/states. The question of whether OneGeology should extend into other themes such as mineral resources was raised, along with the associated question of whether we have the capacity to do this successfully. Tirza van Daalen suggested that by 2012 OneGeology will have a number of thematic datasets and this should be included in the plan/success criteria. KA noted that including thematic data (e.g. hydrogeology data is not straightforward, we would need to involve this part of the scientific community first – not a rapid task. TvD agreed to lead the drafting of a discussion paper addressing Success Criteria #19 –i.e. a policy on high resolution and thematic data.

ACTION 4.13: TvD - draft a discussion paper addressing Success Criteria #19 –i.e. a policy on high resolution and thematic data. (FPC and LA agreed to assist)

JB and KA agreed to assist IJ in drafting success criteria 20 – ‘policy on sponsorship and commercialisation’.

ACTION 4.14: IJ - draft a discussion paper addressing sponsorship and funding (JB, TvD and KA agreed to assist). This relates to Success Criteria 20 and 22.

ACTION 4.15: RP - draft a new Success Criterion addressing satisfying end user needs

Urszula Stepien requested that, to be consistent, an additional success criterion is added for the TWG – to hold 2 meetings per year and that a metadata profile is prepared. US suggested that a common metadata profile for OneGeology is prepared, in accordance with the metadata profile created for OneGeology-Europe. She stated that ISO 19115 contains many useful components that could be used to describe IPR, usage, access and help to solve problems with differences in the participant country’s law.

ACTION 4.16: IJ – contact TWG chairs to ask that an additional Success Criterion is defined for TWG e) OneGeology at conferences, meetings and exhibitions

HT provided an update on OneGeology activities to date, including production of publicity materials, presence at events and website upkeep. KA provided examples of how BGR have taken OneGeology information and customised it for their country and language. All were encouraged to do similarly. KA and FR agreed to take on the organisation of the OneGeology symposium for 34IGC and will ensure its inclusion in the information symposium being taken forward by BS.

ACTION 4.17: KA and FR - develop a proposal for a OneGeology sub-symposium/session within the 34 IGC information symposium and circulate it to the OMG

ACTION 4.18: Katy Booth - Circulate a request for events update in all regions/countries. (Templates for promotional materials can be provided)

All to ask for assistance for events if necessary

9. AOB

It was noted that the next TWG meeting will take place in Québec on 25th September 2009. It is an open meeting and all are welcome but participants will need to have a certain level of technical knowledge if they wish to participate. It is not a training event. NSF are developing training material for GeoSciML over the next few months. This will be provided for OneGeology use. Gabriel Asato raised concerns about GeoSciML. It was agreed to discuss issues further with FR and FPC outside this meeting and ask for an agenda item to be included in the next TWG meeting. All were reminded that they are welcome to forward any comments to Tim/François if they are unable to attend the meeting.

ACTION 4.19: LA - provide NSF funded GeoSciML training materials to OneGeology

10. Review of actions

The actions from the meeting were briefly reviewed and agreed. Full details will be released with the notes.

11. Next meeting

The Geological Survey of China has offered to host the next meeting in Beijing but this needs to be confirmed (IJ). If the Chinese offer does not proceed a fallback location will be arranged (possibly Berlin). KA offered to organise the next OMG; TvD offered to assist.

ACTION 4.20: IJ –contact China GS to confirm their willingness to host next meeting (or not).

ACTION 4.21: KA and TvD organise next OMG

K A Booth

Final version incorporating amendments at 18th August 2009

Action status as of April 2010

Status of Actions agreed at the Buenos Aires OMG July 2009

Action number	Agenda item	Action	Owner	Action status
4.1	Status updates – summary of other nations	Look into how we deal with and target training for participants (GeoSciML)	IJ, FR, RP, FPC	Action remains
4.2	The Steering Group meeting	All S American delegates - discuss the representation on the Steering Group and let IJ know the outcome	SA delegates	✓
4.3	Future governance operation & funding	Define the options for incorporation and circulate to OMG for comment prior to outlining options for Steering Group	IJ/all	✓
4.4		Finalise ESRI offer with them and circulate to OMG for comment prior to outlining options for Steering Group	IJ/all	✓
4.5	Relationships with associated international bodies	KA will contact Chris Jenkins to attempt to get more offshore (ocean) data into OneGeology.	KA	Action remains
4.6		FR will maintain links with OGC and keep OMG informed of significant developments	FR	ongoing
4.7		Seek clarification from Steering Group members as to how they are conducting their communication (in/out) within their regions/continents.	IJ	✓
4.8		JB will update the 'relationships with associated external bodies' to produce a paper and diagrammatic representation of OneGeology relationships.	JB	✓
4.9	IPR	FdB will circulate new Netherlands law to OMG when available	FdB	Action remains
4.10		Translate the 1G IPR advice into Spanish and make it available to OneGeology secretariat for inclusion on the website	FPC	✓
4.11	Success criteria	Provide OneGeology secretariat with information on regional activities, papers conferences, etc.	All	✓
4.12		Ensure OneGeology has a presence at as many US conferences and exhibitions as possible.	LA	Action remains
4.13		Tirza agreed to draft a discussion paper addressing Success Criteria #19 – i.e. a policy on high resolution and thematic data, (FPC and LA agreed to assist).	TVD, FPC, LA, by Oct 09	Action remains
4.14		IJ to draft a discussion paper addressing sponsorship and commercialisation. (JB,	IJ, TvD, JB, KA	✓

		TvD and KA agreed to assist). This relates to Success Criteria 20 and 22.		
4.15		Draft a new Success Criterion addressing satisfying end user needs	RP	Action remains
4.16		Contact TWG chairs to ask that an additional Success Criterion is defined for TWG.	IJ	✓
4.17	OneGeology at conferences, meetings and exhibitions	Develop a proposal for a OneGeology sub-symposium/session within the 34 th IGC information symposium and circulate it to the OMG.	KA, FR	✓
4.18		Circulate a request for events update in all regions/countries. (Templates for promotional materials can be provided)	KB	✓
4.19	AOB	Provide NSF funded GeoSciML training materials to OneGeology.	LA	Action remains
4.20	Next meeting	Contact China GS to confirm their willingness to host next meeting (or not).	IJ	✓
4.21		KA and TvD organise next OMG	KA, TVD	✓

OneGeology Operational Management Group**Meeting 5: 23 August 2010****3. Operational and Technical progress report and status****Background:**

The brief paper summarising progress will be supplemented by a PowerPoint presentation.

Paper #: OMG 5/03.

Authors of paper: Ian Jackson, François Robida.

Action:

The OMG are requested to **DISCUSS** the current status and progress of OneGeology.

Progress of OneGeology: July 2009 – July 2010

1. Introduction

The OneGeology concept originated in 2006 and the project was initiated in Brighton, UK in March 2007. OneGeology is a project with four basic objectives:

- improve the accessibility of geological map data
- exchange know-how and skills so that all nations can participate
- accelerate interoperability in the geosciences and the take up of a new “standard” (GeoSciML)
- use the global profile of OneGeology to increase awareness of the project and the relevance of the geosciences

OneGeology continues to be coordinated through a two-part “hub” - a Secretariat based in BGS and the portal technology and servers provided by BRGM. The “hub” is guided and supported by two international groups – the Operational Management Group (OMG) and the Technical Working Group (TWG). The Steering Group, providing strategic guidance for OneGeology was formed at the end of 2008.

The Operational Management Group last met in June 2009 in Buenos Aires. The Steering Group and the OMG agreed a list of Success Criteria to 2012 (See Agenda item 15); these are providing the goals for the OneGeology work programme.

Two significant tasks were taking forward the proposal to incorporate OneGeology and the finalisation of the ESRI grant offer. The first continues to be a major work component of the Secretariat and is reported under separate agenda items.

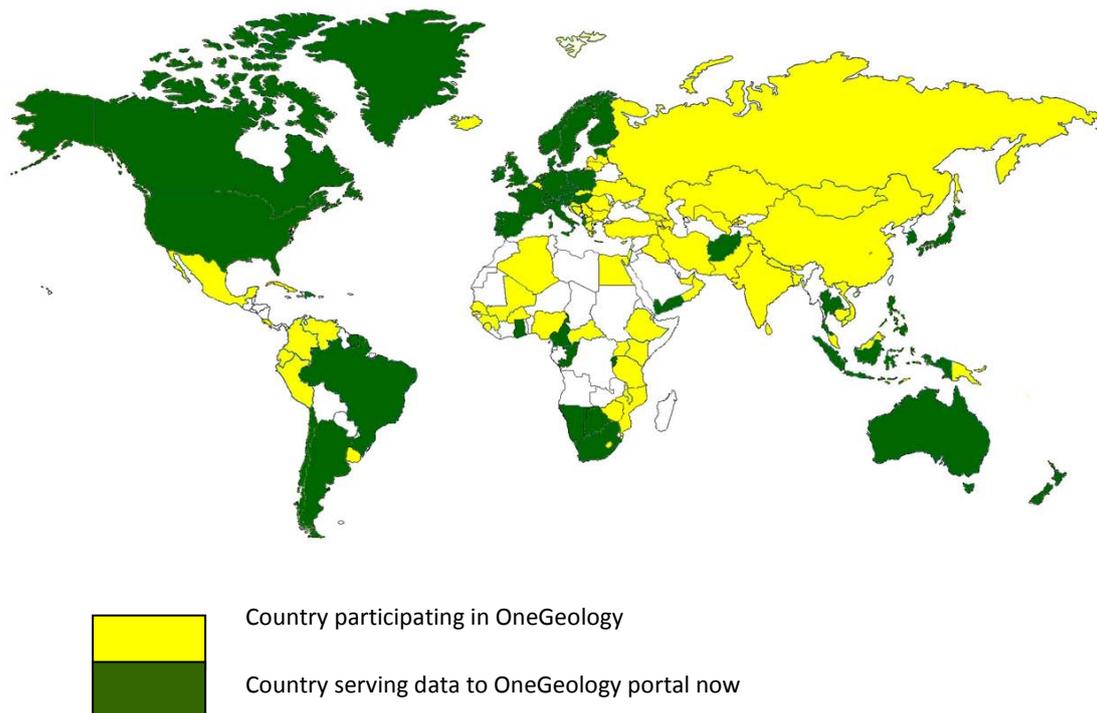
The Steering Group met physically at GNS in Wellington, New Zealand in April 2010 and also held telephone conferences in November 2009 and July 2010.

In this paper, progress for the period since the last meeting of the OMG in July 2009 in Buenos Aires has been reported against each of the original OneGeology objectives.

2. Improve the accessibility of geological map data

In July 2009, 102 nations were participating in OneGeology. Today there are 116 countries participating.

Over 49 countries are now serving data. A list of these countries is attached as Appendix A. At the time of writing there are 197 data layers being served through the portal as part of 85 web services, six of which are continental.



A new version of the OneGeology portal was released in June 2009 and improvements to some functions were made following the September technical meeting. The hosting architecture was also optimized.

Through the work of the EC funded OneGeology-Europe, which has helped progress OneGeology's mission considerably (reported separately under item 5), the portal now provides access to the first ever national 1:50,000 scale geological map data (UK). This validates OneGeology's capability to provide access to high resolution data.

3. Exchange know-how and skills so that all nations can participate

New updated versions of the Cookbooks (technical manuals) have been produced and made available for download on the OneGeology website, these cover WMS and WFS.

Open technical meetings have been held in Quebec, associated with the GeoSciML annual meeting, and in Accra, Ghana, associated with the AEGOS project workshop. In 2011 we have been invited to run a OneGeology workshop at the Colloquium of African Geology (in association with GIRAF and AEGOS).

Two members of the OneGeology technical team from BRGM and BGS visited the China Geological Survey and Academy of Geological Sciences to run workshops and provide training in OneGeology web mapping methods. The technical component of the visit was successful.

The OneGeology web site provides general and specific technical guidance and queries are answered via email and phone calls. The buddy system (where one nation provides assistance to help another nation serve data) is being used by 14 nations.

The Spanish Agency for International Cooperation and Development (AECID) and IGME, Spain, supported and organised a OneGeology-CGI web dissemination of geological maps and geological information course in Columbia in April.

The OneGeology-Europe project has developed standards and methodologies for both science concepts and terms, data models, metadata, high resolution applied data, and data access and licensing, and these will be shared within Europe and be available to all OneGeology global participants.

4. Accelerate interoperability in the geosciences and the take up of a new “standard” (GeoSciML)

More geological surveys are moving to serving WFS (Web Feature Services). The figure is currently 7 rising to 27 by September 2010 mainly as a result of OneGeology-Europe project. As surveys move to WFS they are fully incorporating GeoSciML standards.

OneGeology-Europe has accelerated and refined the development of the geological concept definitions and vocabularies developed by the IUGS-CGI GeoSciML team. This helps the geological sciences move on from interoperability to semantic harmonisation; a pre-requisite of full (geometric) harmonisation.

We have implemented the Open Geospatial Consortium (OGC) catalogue, and its CSW access (using a standard OGC protocol so that the catalogue can be accessed by external portals or applications).

We have registered OneGeology and its services within GEO/GEOSS and a significant amount of joint activity is taking place.

5. Use the global profile of OneGeology to increase awareness of the project and the relevance of the geosciences

Communication and outreach continue to be a high priority for OneGeology.

The website is dynamic and is updated at least weekly.

10 editions of the newsletter have now been produced. The Newsletter is disseminated to over 2000 contacts worldwide. The latest edition is reproduced as Appendix A.

In the last 12 months at many presentations have been given by OneGeology team members. A list of these is attached as Appendix B. The audiences for these presentations range from geological surveys, to international conferences and workshops on geoscience, informatics and spatial data infrastructures.

A large number of articles and papers have also been generated. A selection of these is listed in Appendix C.

The OneGeology Executive Secretary is serving on a US National Academies/National Research Council Committee reviewing an SDI to support USGS future science.

We met with the Executive of global Geoparks and agreed a number of mutually beneficial areas for cooperation (item 8).

We have cooperated closely with the Young Earth Scientists (YES) Network (item 9). A OneGeology presentation was made at their inaugural meeting in Beijing and OneGeology was one of two major topics discussed by YES at the EGU in May.

In the last 4 months OneGeology has begun to use Twitter and Blogs. The news reported on Twitter serves to highlight the range of activity that OneGeology undertakes on a very frequent basis.

Within the outreach element of OneGeology is the recent release of 'OneGeology4Kids', a fun introduction to geology aimed at children under 10 years old. Multilingual versions are hoped to be released soon.

**APPENDIX A:
Latest Newsletter**

**Issue 10 of the Onegeology Newsletter
– June 2010 –
(full copy attached at the back of the meeting papers)**



In this issue:

- Latest news from the OneGeology Steering Group Meeting 1
- Participation at May 2010 2
- OneGeology is topic of discussion at the YES Network's roundtable symposium 2
- OneGeology features in keynote speech at EGU Vienna 2
- OneGeology at the GEO Work Plan Symposium 3
- Web News – NEW translation of 1Gkids pages 3
- ESRI Grant offer update 3
- IG-Europe 3
- OneGeology forms a new association with Geoparks 4
- OneGeology on New Zealand radio 4
- OneGeology Technical Progress 5
- Forthcoming events 5
- OneGeology Regional News 6



Welcome to the 10th issue of the OneGeology Newsletter. The first 5 months of the year have been extremely busy for OneGeology. We are pleased to confirm that the ESRI Grant offer is now available to participating countries. We report the latest news from the Steering Group who held their annual meeting in Wellington, New Zealand. We review the successful YES Network roundtable discussions at the EGU, Vienna. There is a special feature on OneGeology's associations with the Geoparks Network, as well as the regular updates on events within the global regions.



The OneGeology Steering Group, GNS Science, Wellington, New Zealand, April 2010. (front row: Katy Booth (OneGeology secretariat), Dr Suzette Kimball (USGS, Northern America representative), Dr H Kato (Geological Survey of Japan, Asia representative), Maria-Glicia de Nobrega Coutinho (representing Dr A Dantes (CPRM, South and Central America representative), Dr Alex Malahoff (GNS Science, Oceania representative). Back row: Philippe Rossi (CGMW), Mark Rattenbury (GNS), Sarah Gaines (UNESCO), Ian Jackson (BGS, OneGeology Executive Secretary), John Broome (INRC Canada, OneGeology Operational Management Group), Francois Robida (BRGM, OneGeology) and Dr Marko Komac (Geological Survey of Slovenia, Europe representative).

Latest news from the OneGeology Steering Group Meeting

The third meeting of the OneGeology Steering Group took place on 15–16 April 2010 at GNS Science, Avalon, Wellington, New Zealand bringing together the regional representatives for geological surveys around the world. The agenda covered progress in each of the six global regions, detailed discussions on the incorporation of OneGeology, the grant offer that is now available from ESRI, linkages with other organisations such as Geoparks, the YES Network and GEO/GEOSS, as well as looking at the future work and actions for OneGeology. Minutes of the meeting will be available on the website soon.



www.onegeology.org



Appendix B: OneGeology presentations in Reporting Period

Argentina, Buenos Aires	CGI and SEGEMAR seminar	30 June – 1 July 2009
US, Indiana	Geoscience Data Preservation Techniques Workshop, Indiana Geological Survey	15 July 2009
US, Fairfax, VA	17th International Conference on Geoinformatics (Geoinformatics 2009)	12-14 August 2009
India, Delhi	NDR9 (National Data Repository) global meeting	31 August - 3 September 2009
Japan, Okayama	Annual Meeting of Geological Society of Japan	5 September 2009
The Netherlands, Amsterdam	Scientific Committee on Antarctic Research data management and geographic information meeting	7 - 9 September 2009
Turkey, Istanbul	3 rd GeoEuropean Projects Workshop	7-9 September 2009
Italy, Rimini	VII Italian Forum of Earth Sciences (Geoitalia 2009)	9 - 11 September 2009
China, Beijing	Earth in Action meeting	9 - 12 September 2009
U.S. Denver	USGS Council on Data Integration, "Geoscience Information Network," Denver, CO,	15 September 2009
Canada, Québec	IUGS-CGI Interoperability Working Group meeting - GeoSciML v 3 development	21 - 25 September 2009
China, Beijing	4th IGMA Workshop (International Geological Map of Asia)	24 - 28 September 2009
Canada, Québec	The 5th OneGeology Technical Working Group meeting	25 September 2009
U.S. Massachusetts	Faculty seminar, "Geoscience Information Network," Dept. of Geosciences, University of Massachusetts, Amherst,	1 October 2009
Turkey, Istanbul	3rd GEO European Projects Workshop	8 - 9 October 2009
USA, Portland	Geological Society of America annual meeting x 2	18 - 23 October 2009
Italy, Genoa	Festival della Scienza	23 October - 1 November 2009
Italy, Genoa	OneGeology-Europe Awareness Seminar	29 October 2009
China, Beijing	Yes Congress 2009	25 - 28 October 2009
Africa, Kampala	AfricasGIS 2009	26 - 30 October 2009
Portugal, Lisbon	Planet Earth Lisbon Event (IYPE)	19 – 22 November 2009
USA, San Francisco	Fruits of IYPE – Implementing Long Term Activities (U12), IYPE wrap-up session at the American Geophysical Union (AGU) Conference	14 - 18 December 2009
Italy, Ispra	GIGAS (GEOSS, INSPIRE, GMES, and SEIS) workshop	26 - 27 January 2010
France, Paris	CGMW General Assembly	15 - 16 February 2010
France, Paris	IUGS Executive Committee Meeting	22-23 Feb 2010
UK, London	UK Location Council	18 March 2010
Belgium, Brussels	EuroGeoSurveys Directors' Workshop	23 March 2010
Austria, Vienna	European Geosciences Union General Assembly	2-7 May 2010
Austria, Vienna	YES (Young Earth Scientists) Network roundtable discussion re 1G	7 May 2010
Canada, Calgary	GeoCanada 2010	10-14 May 2010
Serbia, Belgrade	International Serbian Geological Congress	May 2010

Poland, Krakow	INSPIRE conference	22-25 June 2010
Australia, Canberra	The Biannual Australian Earth Sciences Convention	4-8 July 2010
Hawaii, Honolulu	IGARSS 2010 (International Geosciences Standards Conference)	25-30 July 2010

NB: all of these presentations have been accompanied by an abstract and/or been published in conference proceedings.

Appendix C: Selected recent articles and papers

Journal	Article Title
Official publication of the International Year of Planet Earth	One planet, one geology
EOS	One Geology?
GeoInformatics (book chapter)	OneGeology: Acting locally but thinking globally
GeoInformatics book chapter (Cambridge Press)	OneGeology – from concept to global project
Geological Society of America Abstracts with Programs	Tweet, Therefore I Am: Social Networks in the Earth Sciences
Geological Society of America Abstracts with Programs	US GIN: Interoperable Geoscience Data Services on the Web – How Do We Get There?

OneGeology Operational Management Group

Meeting 5: 23 August 2010

4. Overview and results of Steering Group Meeting and teleconference

Background:

The Steering Group held a meeting in Wellington, New Zealand on 15-16 April 2010 and a teleconference on 6th July 2010 (minutes in prep). The minutes of the April meeting are attached. A PowerPoint presentation will provide an overview.

Paper #: OMG 5/04.

Action:

The OMG are requested to **NOTE** the minutes of the meeting.

Minutes of the 3rd

OneGeology Steering Group Meeting

Thursday 15 April and Friday 16 April 2010

Geological and Nuclear Sciences (GNS) Lower Hutt, Wellington,
New Zealand

Members present:

Europe: Dr M Komac – Director, Geological Survey of Slovenia and representing EuroGeoSurveys

North America: Dr S Kimball – Deputy Director, United States Geological Survey and representing Canada, USA and Mexico

Oceania: Prof A Malahoff – Chief Executive, Geological and Nuclear Sciences, New Zealand, and representing Oceania

Asia: Dr H Kato – Director General of the Japanese Geological Survey and representative of CCOP

South & Central America: Maria-Glicia da Nóbrega Coutinho deputising for Dr A Dantas, CPRM Brazil and representing South & Central America

Ex-Officio: CGMW: Philippe Rossi ; UNESCO: Sarah Gaines

OneGeology Secretariat: Ian Jackson (BGS), Francois Robida (BRGM) and Katy Booth (BGS)

Observer: John Broome (NRC Canada)

Apologies:

Africa: Dr G Schneider – Director, Namibian Geological Survey and representing the Organisation of African Geological Surveys

South & Central America: Dr A Dantas, CPRM Brazil representing South & Central America

Ex-Officio: IUGS: Prof Alberto Riccardi; UNESCO: Dr R Missotten

Business items

1. WELCOME, INTRODUCTIONS AND APOLOGIES

1.1 AM welcomed all delegates and provided an overview of GNS, its business structure and work programme.

1.2 Apologies were received from Dr Gabi Schneider (African representative who took part in specific agenda items via teleconference); Dr A Dantas (South & Central America representative) who was represented by Maria Glicia da Nóbrega Coutinho; Dr He (Asia/CCOP representative) who was represented by HK; Prof Alberto Riccardi (IUGS ex-officio member); and Robert Missotten (UNESCO ex-officio member).

2. AGREEMENT OF AGENDA

2.1 It was noted that an extra agenda item had been added regarding 'meeting alternates and deputies. This was ACCEPTED.

2.2 An additional discussion paper had been submitted regarding a proposed accreditation system for OneGeology. It was AGREED to take this as an AOB.

2.3 The agenda was AGREED.

3. MINUTES OF PREVIOUS MEETING 26/27 NOV 2009 (TELECONFERENCE)

3.1 The minutes of the previous meeting were APPROVED with no changes.

4. ACTIONS

4.1 The outstanding actions were reviewed as follows:

Action 2.1 – SK will forward the copies of the USGS MOU agreements to the OneGeology Secretariat for reference. This was assumed by SK to be done but will be checked. **ACTION: SK**

Action 2.2 – SK and AM will provide marine data to OneGeology as soon as possible.

SK reported that USGS data should be available in the portal within 2 months. AM reported that the item is on the agenda for the next Chief Geologists Regional Meeting and work will be undertaken to achieve this target. **ACTION: SK, AM**

Other outstanding actions were taken as individual agenda items.

5. STATUS AND PROGRESS OF ONEGEOLOGY – OPERATIONAL AND TECHNICAL

5.1 IJ complemented the paper with a PowerPoint presentation (.ppt to be made available) update on progress since the last meeting based on, and measured against, the main OneGeology objectives. It was confirmed that BGS and BRGM will continue to provide supporting funding (secretariat and portal maintenance/development) until at least the next milestone for OneGeology, the International Geological Congress (IGC) to be held in Brisbane, Australia in 2012.

5.2 It was noted that two significant tasks have been progressed since the last meeting - the ESRI grant offer and the proposal of incorporation of OneGeology, these topics were taken as separate agenda items.

5.3 FR presented an update on the technical aspects of progress. The exchange of know-how and skills has, and continues to be hugely successful. New Cookbooks have been published and open technical meetings and seminars have been held (e.g. at the Geological Survey of China in Oct 2009). It is hoped to include these map data in the portal soon. The 'buddy system' has been used by eight nations to date by assisting to serve data. Routes of contact for help and support are via the web, email helpdesk and telephone.

5.4 All information resulting from the OneGeology-Europe project will be available to all OneGeology-global participants by the end of the year. In addition, all (c. 27) WFS services will be migrated into the OneGeology-global portal in Summer 2010.

5.5 OneGeology has been invited to run workshops at Colloquium of African Geology (CAG) and American Association for the Advancement of Science (AAAG) next year.

5.6 The portal has been tested to cope with new data content. BGS has provided nationwide coverage of 1:50,000 scale map data which has proven that all data scales can be integrated from a technical point of view. The new 1:50M scale CGMW map of structural elements has been added. Version 3 of the portal is currently undergoing testing and includes a gazetteer,

optimisation of queries, control of visibility according to scale, and enabling the use of the latest standards. Work is also progressing on options to select by 'region' rather than country.

5.7 JB presented an update on the global profile and awareness of OneGeology. Huge media interest was generated at the IGC in 2008 and current communications and publicity uses the web, newsletters, presentations, abstracts, articles, twitter and blogs, and the release of the 1Gkids web pages. Continued and new linkages with other organisations are important – eg CGMW, Geoparks, YES Network and ICSU strategic coordinating committee on data and information.

5.8 JB also acknowledged the continued substantial contributions to OneGeology of BGS and BRGM. The importance of this was recognised and appreciated.

5.9 Discussion

HK raised the issue of data integration when different schemes, legends and contents are published. From the outset, OneGeology has been clear that its prime objective is the accessibility of information and that scientific harmonisation is a subsequent challenge.

AM asked about the availability of funding for training and workshops. There certainly is demand and willingness to deliver these but a lack of funding severely restricts OneGeology's ability to act.

IJ relayed GS congratulations on the informative newsletters and recently released 1Gkids web pages. It was noted that the next meeting of the African Geological Surveys will take place in May and GS will raise OneGeology at the meeting. It is quite difficult to get involvement from some African surveys but the reasons for this are multiple and varied.

6. ONEGEOLOGY STATUS, PROGRESS AND ISSUES IN EACH OF THE SIX REGIONS

(GS was present via teleconference for this item)

6.1 Oceania region

Mark Rattenbury of GNS presented a report using PowerPoint for the Oceania region (.ppt to be made available). The current data, provided as a WMS to the OneGeology portal, is the 1972 1:1M scale map. A new series, QMAP, at 250K, is nearing completion which also provides a host of thematic maps and derived data and the aim to provide some data layers to OneGeology in the near future. WFS data for New Zealand should be available ready in the next 3 months. Australia is currently serving a variety of map data, including some WFS.

OneGeology communication within the Oceania region is coordinated through the Chief Government Geologists (includes State geological surveys, Australia, New Zealand and PNG (observer)) and the CGIC. There are no formal communications or contacts with/between the other islands of Oceania. However, there is awareness that this issue needs to be addressed imminently. GNS noted their intention to raise efforts and follow up their contacts made through mapping contracts etc. Many islands have also worked with BRGM and the USGS eg New Caledonia. FB will discuss with PR.

ACTION: All regions to collaborate to provide information for the islands of Oceania.

ACTION: AM, AK, FB, PR.

It was reported that GNS marine data is available now and will be provided to OneGeology.

ACTION: AM/MR

6.2 Africa region

GS presented the report for Africa via teleconference (.ppt to be made available). The statistics for the Africa region show that it is very difficult to engage with many countries for diverse reasons (limited web access, lack of technical skills, non-awareness of the benefits of OneGeology, etc). GS recommended that innovative thinking was required and a more non-web based approach to communications.

Ongoing promotion of OneGeology will be through the Organisation of African Geological Surveys Association and their next meeting will be held in May 2010 in Algeria.

GS noted that a plan to engage with the Geological Society of Africa and, through this organisation, reach more universities, should help to further increase awareness in OneGeology. The AEGOS project is also working in Africa.

It was recognised that in many countries where geological data are hard to locate in country it may often be held by other surveys. It was AGREED to compile a list of such data and countries (for those countries not yet participating) and draft a letter template that could be sent to relevant countries from BRGM, BGS, BGR, etc. GS AGREED to also contact the country on behalf of OneGeology to explain the situation as personal contact is preferred. **ACTION: IJ, GS.**

6.3 South & Central America region

M-GC presented the report for South & Central America (.ppt to be made available). The work of CPRM was outlined briefly, particularly the borders project in which CPRM (Brazil) is collaborating with its neighbouring countries to produce a harmonised geological GIS. CPRM also works closely with CGMW and are now beginning to look at providing offshore data. The main issue limiting contributions to OneGeology by the neighbouring countries is said to be lack of technical equipment.

6.4 North America region

SK presented the report for North America (.ppt to be made available). All three countries within this region are participating in OneGeology. Within approximately 2 months both the northern and southern North America map sheets will also be digitised and available for registration in the portal. Ways to show offshore data are being investigated and some areas. This will be used to develop the marine component in collaboration with other organisations. There is some very detailed marine mapping including the Gulf of Mexico. The USGS are also working with Russia on detailed marine mapping North of Alaska. This data will be completed this year and available for OneGeology.

Canada has been working to engage its Territories and the resulting map data from the Tri-Territorial bedrock geology project will be systematically added into the OneGeology portal. GeoCanada will be held in May 2010. Mark Diorio, Director General ESS, has identified some marine datasets that can be made available. **ACTION: SK to pursue provision of US and Canada marine data and subsequent registration in the portal. ACTION: SK**

It was reported that the last Tri-national meeting was attended by the new Director of the Mexican Geological Survey and that Mexico were actively working towards serving their data. **ACTION: SK to continue to encourage Mexico to serve a national data set.**

The US GIN continues to provide protocols and standards for interoperability and provides a framework for the 50 states to provide data using GeoSciML as an adopted operating mechanism.

The question of whether OneGeology should provide additional data layers and features has been debated within State Surveys. The opinion is divided. SK will continue one-to-one discussion with the State Surveys in order to provide more individual State data to the portal.

6.5 Europe region

MK presented the report for Europe (.ppt to be made available). The major driver for the progress in Europe has been the OneGeology-Europe project, through which, all 20 partners are committed to serve data. The major objectives for the project and the work package tasks were described. Progress and current status of data services were noted. The next steps to completion of the project later this year include: ensure all geological survey consortium members are providing a WFS according to the specification; document the major harmonisation issues and propose a process for tackling them; finalise the Code of Practice for data access; produce a book illustrating use of geological spatial data. All data documentation and guidance will be available to all OneGeology global participants.

6.6 Asia region

HK presented the report for the Asia region. It was noted that Dr He of the China Geological Survey was now the Secretary General of CCOP. The Geological Survey of Japan is currently digitising the 1:1M map of Mongolia (as part of a CCOP project) and has permission to serve it to OneGeology. CCOP is also progressing communication with PNG regarding data availability. HK also stated that he had recently attended the working group of minerals and resources meeting involving Japan, Korea and China in which CCOP presented OneGeology. Meeting attendees expressed interest and he will follow up contacts made. **ACTION: HK**

Information and communication for Pakistan is not forthcoming but attempts will continue. Communication with Vietnam has been established. GSJ are assisting Indonesia with their 1:50K scale data and the Indonesian government have requested this data be available within 3 years. At the CGMW meeting earlier this year, OneGeology was introduced to representatives from Iran and Iraq. GSJ has a long history of working with Turkey (MTA), HK AGREED to follow up. **ACTION: HK to contact MTA Turkey regarding data provision.**

AM noted he will be leading a New Zealand delegation to Vietnam and will also promote OneGeology. HK recommended that AM speak with Koji Wakita of GSJ to discuss further.

7. Additional agenda item: MEETING ALTERNATES AND DEPUTIES (GS was present for this item via teleconference)

Recent difficulties had prompted the need to discuss and agree a process for alternates and deputies. It was AGREED that all Steering Group members have been nominated by their regional geological surveys and that any deputy must be at Director level to avoid diminution of the Steering Group.

GS preferred the option of having an elected deputy representative for Africa whereas other regions would prefer to contact a peer if they themselves are unable to attend.

It was AGREED that the prime task of the Steering Group member is to attend the annual meetings. Only in extenuating circumstances should deputies be sent. It was AGREED to appoint deputies in whatever way is most suitable to the region but that a deputy must be a peer (Director of Survey or equivalent level). Video and teleconferencing were also to be considered only as a last resort.

Ex-officio member attendance protocol would remain as at present.

It was noted that the Sec General CCOP was perhaps not the correct representative for Asia and HK AGREED to discuss this matter with IJ and to set out a proposal to change the current situation. **ACTION: HK, IJ.**

8. Reports from the ex-officio members

8.1 SG presented a report on behalf of UNESCO (.ppt to be made available). SG reported on the recent 4th International UNESCO Geoparks Global conference held in Malaysia, outlining the regional approach of Geoparks in the Global Geoparks Network to managing sites, encouraging tourism, and the promotion of the fun aspects of geology. The delegation at the conference was also wide-ranging from geologists to tourism experts to politicians. It was noted that a memo of understanding and website proposal had been discussed between Geoparks and OneGeology. Geoparks are excited about the prospect of working together with OneGeology.

It was felt that more lobbying of GEO/GEOSS was needed to ensure inclusion and a higher profile for geological data. UNESCO is happy to set up meetings between OneGeology and their permanent delegations where appropriate.

UNESCO's involvement with YES (Young Earth Scientist) Network was also described. The next meeting of the YES Network is in Vienna at the EGU in May 2010 where YES are running a roundtable discussion focussing on OneGeology and has invited OneGeology members to participate. This roundtable may develop ideas for future partnership between YES and OneGeology. **ACTION: SG, 1G**

SG is involved in the UNESCO Education Initiative in Africa, which has been scoped through a series of regional workshops that included participants from both industry and universities and highlighted the need for such things as primary education in geosciences, outreach explaining the relevance of the earth sciences, better global collaboration between researchers, and better partnership between the industry and universities. The launch event which will synthesise the findings of the workshops and plan the future actions of the Initiative will take place at UNESCO, Paris 28-29 October 2010. A OneGeology training workshop could be included. **SG and FR agreed to discuss options and agree a workshop programme for this meeting. ACTION: SG, FR.**

It was noted that it will be important in the future that UNESCO can justify involvement in OneGeology with its member states by demonstrating the societal relevance and application (eg thematic maps, etc). The OneGeology kids web pages were positively noted and it was suggested that an additional practical aspect could be added eg tutorial, or lab-pages. KB will discuss further with SG. **ACTION: KB, SG.**

8.2 PR presented a report on behalf of CGMW (.ppt to be made available).

The new 2009 (3rd edition) CGMW world geology map is now available on the OneGeology portal. It was recognised that the aims of OneGeology fit and compliment the aims of CGMW very well. CGMW would like to submit to consideration the possibility of organizing the OneGeology portal according to a "zoom-like presentation". The CGMW Geological map of the World at 1:25 M would constitute the starting view of the portal from which successive enlargements would progressively provide data of CGMW -or other- 1:5 M continental maps, or 1:20 M oceanic maps. Further enlargements of the latter would lead to examine the 1:1 M or more detailed scales of national maps. CGMW are currently preparing the structural map of the South Atlantic for release at the IGC in 2012. The geological map of the Middle East is being upgraded and the international geological map of Asia at 1:5M scale is being coordinated by the China Geological Survey.

- 8.3 Prof A Riccardi could not attend the meeting but provided a report on behalf of IUGS – attached as Appendix 1.

9. INCORPORATION OF ONEGEOLOGY

Present for this item were GNS legal and business experts Peter Barker and Des Darby.

In addition to the meeting paper IJ presented the latest news on progress. (.ppt to be made available). At the teleconference in November 2009, the Steering Group had AGREED to take forward the option for incorporation as a UK company limited by Guarantee. This is a not-for-profit entity. Following the teleconference agreement the NERC lawyers and legal team were briefed and confirmed that a Company Limited by Guarantee Charity was the best course. IJ met with the legal team most recently on 6 April. The draft articles were not at an appropriate stage in time for this meeting but will be provided as soon as possible.

Although the details of the proposed incorporation articles were not yet ready for consideration, IJ presented the likely structure and responsibilities. As members of a CLG, GSOs would be required to sign a constitution document. It was acknowledged that the task of getting formal sign up by GSOs would be a long one and may in some cases prove impossible. All representatives AGREED that the UK CLG Charity proposal and structure appeared workable and should be taken forward to the next step.

It was re-affirmed by the Steering Group that incorporation would provide stability and sustainability for OneGeology and allow it to raise sponsorship funds in order to sustain, grow and support training and development where needed across the World.

Following discussions it was agreed that one country, one vote was equitable and that the situation of state/provincial surveys and their representation would be discussed with the lawyers. **ACTION: IJ.** A modified version will be circulated to SK, JB for initial comment.
ACTION: SK, JB.

IJ will also confirm that the 'Board' does not need a UK citizen on it. **ACTION: IJ.**

After further legal advice, a new version of the basic structure, principles and an overview of the articles will be circulated to all as soon as possible. Once this has been agreed, the go-ahead for the preparation of the full articles will be given to the lawyers.

Each Steering Group representative will inform members within their region and explain the reasons for moving forward with a UK CLG Charity and to obtain an agreement in principle from their region.

IJ and JB will draft a workflow process/indicative timeline for the sequence of steps in the process. **ACTION: IJ, JB.**

It was AGREED to set up a teleconference to further discuss these issues in early July. **ACTION: KB to arrange a date and time for the teleconference.**

AM will be attending a Chief Government Geologists conference on 24 May in Wellington and would like the next version of the draft structure for then. **ACTION: IJ to send relevant information to AM.**

10. ESRI GRANT OFFER

10.1 IJ presented an update regarding the grant offer from ESRI which has now been agreed (.ppt to be made available). Applications will be made via the ESRI regional offices (rather than through 1G). Oman has already taken up the offer. The OneGeology secretariat will now publicise this offer on the website and by email. **ACTION: KB.** The Steering Group re-affirmed their approval.

It was AGREED that a point of contact for technical issues between OneGeology and ESRI should be set up and FR would do this. **ACTION: FB to arrange.**

11. LINKAGES WITH OTHER NATIONAL AND INTERNATIONAL ORGANISATIONS

KB provided a brief overview of recent collaborations. OneGeology has established strong linkages with over ten regional and global organisations who have pledged their support. Most recently, OneGeology has become more closely involved with GEO/GEOSS (Global Earth Observations), having been officially recognised as a 'subtask' and represented at a number of GEO/GEOSS meetings. OneGeology has recently been asked to contribute information on how it measures its progress and is also investigating ways of contributing OneGeology information and expertise at a 'showcase' event at the next Ministerial Summit in Beijing in November 2010.

Additionally, closer links with Geoparks and the YES Network (Young Earth Scientist) have been established. OneGeology and Geoparks are to set up a MoU and a series of new web links and pages. The YES Network have organised a roundtable discussion and invited OneGeology representatives to present and take part.

On GEO/GEOSS, it was noted that EuroGeoSurveys (EGS) had taken the decision to draft a joint letter (to be signed by IUGS, USGS, UNESCO, EGS and others) to the Secretary General of GEOSS calling for more increased inclusion of the geosciences within GEOSS. The concern is that GEO/GEOSS is too focussed on remote sensing and insufficiently on in situ data.

The MoU with Geoparks needs to be clarified and finalised. It was noted that Geoparks is clearly linked to OneGeology outreach and the role for information on geological maps could be an important part of the development of the OneGeology portal. It was recognised that this will move OneGeology away from the 'only geology map data' role but all AGREED that this was an appropriate outreach activity and beneficial to OneGeology as Geoparks agreed and that the development of the web pages should go ahead. **ACTION: KB.**

SG was asked to report back to the Steering Group on the outcome of the YES roundtable discussions. The Secretariat was to ask the OneGeology presenter to ask the YES session group to report back. **ACTION: SG, KB.**

12. RECRUITING NEW NATIONS AND INCREASING DATA SERVICES

- 12.1 Recruitment and participation remains an issue in Africa GS had noted that OneGeology will be promoted at the next AGSA meeting in Algeria. CGMW will also be attending and UNESCO will actively encourage participation. PR was asked to provide feedback from this meeting. **ACTION: PR.** MK was noted that PGI (Polish Geological Institute) works closely with Angola and has offered assistance. There may be opportunities to promote OneGeology through UNESCO events in Africa. KB to discuss possibilities with SG. **ACTION: KB, SG.**
- 12.2 HK reported that Iran will participate through CCOP, as will Malaysia and PNG. Links have been lost with Singapore, HK will attempt to reconnect. **ACTION: HK.** China has received training and their data should now be available but no communication has been received since the visit. AM AGREED to write to CGS encouraging them to register their data services. The USGS has also worked closely with China, SK offered to consult the Director of International Programmes (USGS). HK said he could also ask CCOP to contact China and will provide the Secretariat with contact details. In conclusion it was AGREED that OneGeology would write to the China Geological Survey through CCOP. KB to draft letter on behalf of AM. **ACTION: HK, KB.**
- 12.3 Central Asia is not part of CCOP and no connections are known (eg Kyrgyzstan, Turkmenistan). Despite approaches by the Secretariat, no information or contact has been successful with Saudi Arabia. CGMW reported that they have incurred similar problems. F R said that BRGM will be working there soon and will action a colleague to attempt to contact the geological survey organisation. **ACTION: FR.**
- PR also noted that the “6 continent” model OneGeology as adopted for the Steering Group left North Western Asia (and in particular Russia) somewhat excluded. IJ proposed that the Steering Group should consider a seven continent model at their next teleconference. **ACTION: KB to place item on agenda.**
- 12.4 Several conversations/emails have taken place with Russian and the hope is that they will be serving data by the end of this year at 1:5 and 1:2.5M scale.
- 12.5 Effective communication with the Indian Geological Survey is a problem; contacts appear to change continuously. CGMW noted a problem in India also.
- 12.6 Lebanon has data and CGMW have contacts. There may be technical issues. PR will make contact. HK will also email any contacts to the Secretariat. **ACTION: PR, HK.**
- 12.7 SK said she would promote and discuss OneGeology at the next discussions regarding the Global Seismic Network and climate activities. **ACTION: SK.**
- 12.8 The provision of the digital data for the new circum-polar-Arctic map was discussed. The map has been available for some time and there were requests to see the data available in the OneGeology portal. **ACTION: AM will write to the Canadian Geological Survey (IJ to draft letter).**
- 12.9 Brazil (CPRM) has received a request from Bolivia for technical training. This training is available to other countries too if requested. Paraguay doesn't have a geological survey and have proved difficult to contact. Uruguay has a geological map but in paper format. CPRM are currently trying to kick-start a project with Venezuela. A new project to create a hydrogeological map for South and Central America is just beginning. ASGMI is responsible for the coordination of the project and the first step is to collate the basic geology map which should ultimately be available in OneGeology. However, M-GC noted some countries, mainly in Central America, have technical difficulties and human resources are not available. It was noted that the Spanish

Cooperation Development Agency are funding technical training workshops, in Colombia soon (see the OneGeology website for more information). This is tremendous support for OneGeology and South and Central America countries that need training are encouraged to attend. As a result of discussion of the role of Steering Group members it was emphasised that all Steering Group members need to be pro-active supporters of OneGeology and have an obligation to encourage membership and the serving of data for all nations within their global region at every opportunity. The secretariat can help in this wherever possible. M-GC AGREED to forward details of forthcoming conferences and meetings to the 1G secretariat. The secretariat can provide appropriate materials and presentations in Spanish. **ACTION: M-GC**

12.10 Within the European region Belarus are not members of EGS and contact with them has been difficult. It is hoped that Montenegro will be actively participating soon. Most of the remaining countries are small and do not have geological surveys but EGS will encourage those neighbouring countries to help out and engage. Monaco, Gibraltar and Malta data will be progressed by CGMW and BGS. **ACTION: PR and KB.** By the end of August the Portal should have a further 20+ data services in WFS, as a result of OneGeology-Europe which it is planned will be free to download under a harmonised access statement.

12.11 Within the Oceania region many islands (e.g. American Samoa, Virgin Islands, Puerto Rico, Micronesia, etc) are US territories. AM and SK AGREED to pursue and inform the secretariat of the outcome. **ACTION: AM, SK.** New Zealand should have map data for some of the Islands (eg the Cook Islands, Western Samoa, Tonga, Tuvalu, etc) and AM will try to make progress. **ACTION: AM.**

12.12 AM AGREED to serve marine data in the ownership of GNS (sea floor geology or bedrock and/or sediments, WMS or WFS). Having this data in the portal will encourage others also. **ACTION: AM.**

M-GC said that CPRM has already started providing offshore data nationally and will look at providing it to the portal. **ACTION: M-GC.**

12.13 Discussions concluded that the OneGeology primary aims globally are to secure data services for China, Russia, Saudi Arabia and India plus some marine data services by 2012. Progress on this will also be discussed at the teleconference in July. **ACTION: All.**

13. DEVELOPING THE FUNCTIONALITY OF ONEGEOLOGY

13.1 The model and approach which OneGeology has adopted is seen by others as an appropriate way to make other data accessible – both enhanced geological (eg 3D data) and non-geological data. Suggestions and requests continue to be made in relation to this, but OneGeology resources to deal with it are limited. Requests have included the following; to serve increasing resolution data, to serve applied geological data (e.g. landslides, resources), to serve geophysical, mineral resource, hydro data, to improve portal functionality, harmonized access conditions, provide other domains or allow others to adopt the 1G model for their area of science/expertise, beyond geosciences.

PR explained that some data types, eg geophysical data, would be difficult to present and coordinate. CGMW have had experience of these issues.

SK noted that many of the US State surveys are moving towards 3D modelling of the geology, especially in areas where the surficial cover is extensive. Geological information is also

important for water supply, energy development, resource supply, etc. so real value would be gained from access to different types of maps.

The core purpose of OneGeology was discussed and it was AGREED that the most important objective is getting basic global 2D coverage, to provide a platform for other information which can enrich the basic 2D geological data.

The Steering Group AGREED that OneGeology should stay with its current remit (to IGC 2012) and pursue a global coverage of basic geological map data. All were happy for other domains to use the OneGeology methodologies and structure etc as long as they fully acknowledge OneGeology. Once the prime objective has been achieved, OneGeology can then go on to evolve and expand. HK recommended developing a clearing house of metadata to allow access directly to the right survey.

FR added that when comprehensive geology map data was available, many other types of information could be linked eg reference papers and a variety of other functionalities can be added. We also have to think about the technical aspects, the tools and the supporting functionalities. BRGM will focus on developments such as creating a web service from a simple GIS file whereby a participant can send a file, complete a metadata form and the service will be created. This service could be added as a complementary service provided by OneGeology.

In summary, the major focus is confirmed as completing the basic 2D geological map data coverage and increasing marine data coverage but, in the future, to move into other geosciences data.

14. AOB

14.1 The concept note: A OneGeology data provider accreditation scheme was discussed.

FR presented the concept. At a recent meeting with the global Geoparks executive OneGeology heard how they have a scheme to accredit all geological parks that wish to become Geoparks through a set of best practice specifications and evaluation against those specifications, so encouraging and maintaining best practice. This resulted in an idea – could we devise and introduce a similar scheme within the OneGeology community to use OneGeology as a pro-active (as opposed to a passive) force for good to progressively improve the accessibility of geological data and raise standards.

All AGREED that the concept should be adapted and a four star system introduced. Taking comments on board, a revised proposal will be circulated and aim to achieve final sign off at the teleconference in July. **ACTION: IJ, FR, JB**

14.2 Within the concept note the term ‘reliability’ of the data was questioned as its meaning is ambiguous. It was agreed to modify this to ‘availability’. Targets will be set as an incentive but should not be unattainable and an amount of tolerance will be given. Periodicity of evaluation could be about one year. No penalties will be introduced if a problem is not within the control of the organisation eg internet connection problems. The ‘access conditions column’ was not considered necessary.

15. Date and location of the next meeting

15.1 At the 2009 Paris meeting HK (Japanese Geological Survey) offered to host the 2011 meeting. HK confirmed that this offer remained. GSJ fully support the Steering Group meeting and suggest an excursion to one of Japan’s geoparks. This offer was ACCEPTED with thanks.

15.2 An initial date was AGREED of the week 3 – 8 April 2011. Secretariat and HK to confirm arrangements. **ACTION: HK, KB.**

- Close of meeting -

K A Booth
26 April 2010

Appendix 1

Report by the IUGS President Alberto C. Riccardi (ex-officio member)

In August 2008, when I was elected IUGS President during the quadrennial IUGS Council meeting, I clearly stated that in my view IUGS Commission and Tasks Groups mainly respond to specific needs of the international geological community with regards to establishment and source of information on international standards for the Geological Sciences, that this role cannot be performed by other bodies, and that this type of activity, as well as those on capacity building and management and application of geoscience's information should be maintained and reinforced by IUGS.

As a consequence of this idea on 29 June-3 July 2009 I attended a meeting of the OneGeology Operational Management Group which was held in Buenos Aires together with a meeting of the IUGS Commission on the Management & Application of Geoscience Information (CGI). There I became acquainted with the activities both groups are developing in close collaboration and I exposed my view that it was of foremost importance for IUGS to support and become actively involved in the OneGeology initiative.

As result, on October 2009 I was kindly invited in my role of IUGS President to become an ex-officio member on the OneGeology Steering Group.

Since then my main goal in relation to OneGeology has been to support not only its interaction with the IUGS Commission on the Management & Application of Geoscience Information (CGI), but also with other IUGS bodies and with the 34th International Geological Congress (Brisbane 2012).

As one of the main contributions IUGS could provide to OneGeology is in the field of standards in the geosciences it has been considered a priority to establish a close interaction of OneGeology with the IUGS Commission on Stratigraphy (ICS) – a body working in stratigraphic standards which are basic to geological mapping. Here it is expected an OneGeology-ICS interaction similar to the one existing between ICS and the Commission of the Geological Map of the World (CGMW).

At the same time the IUGS has become involved in a larger initiative on geological standards that has a direct bearing on OneGeology. Thus IUGS has identified as priority tasks (1) to make an inventory of all geostandards sponsored by IUGS in the past; (2) to identify existing geostandards which could be endorsed by IUGS; and 3) to propose new geostandards for future development. All these tasks are well underway.

It is expected that all these developments will result in one or several sessions on geostandards to be organized for the 34th International Geological Congress (Brisbane 2012), with an active participation of OneGeology.

Attendance of the last IUGS Executive Committee meeting (Paris, 22-25 February 2010) by the Executive Secretary of OneGeology, the Chairs of IUGS Commissions on the Management & Application of Geoscience Information (CGI) and on Stratigraphy (ICS) and the Secretary General of the 34th International Geological Congress surely has helped all these matters to move forwards.

Directed to strengthen even more coordination of all these activities at the international level is IUGS intention to establish formal relationships with National Geological Surveys through organizations such as the EuroGeoSurveys and the Iberoamerican Association of Geological Surveys (ASMGI, "Asociación de Servicios de Geología y Minería Iberoamericanos").

OneGeology Operational Management Group

Meeting 5: 23 August 2010

5. OneGeology-Europe: Status and Progress

Background:

The OneGeology-Europe project will complete in September 2010 with a closing workshop and final EC review in October 2010 in Paris.

One of the key achievements of the OneGeology-Europe project is a commitment by 20 European Geological Surveys to make their 1:1 million scale map data available for free for download for all users.

An over view of the status and a progress update will be provided in a PowerPoint presentation.

Paper #: None

Action:

The OMG are requested to **DISCUSS** the progress of the OneGeology-Europe project.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****6. OneGeology and the Geoscience Information Network (GIN)****Background:**

The US-based Geoscience Information Network is a regional project which is providing input to OneGeology and supports its goals.

GIN recently launched two new websites: US GIN (www.usgin.org) is the primary program site and US GIN Lab (www.lab.usgin.org) is a specialised technical site aimed at developers and programmers.

A brief update on progress will be provided.

Paper #: None

Action:

The OMG are requested to **DISCUSS** the progress of GIN.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****7. OneGeology progress in other regions****Background:**

A review of progress in other regions will be provided. This item offers the opportunity for a summary of progress and perceptions of OneGeology from delegates.

Paper #: None.

Action:

The OMG are requested to **DISCUSS** the progress and any issues raised.

OneGeology Operational Management Group

Meeting 5: 23 August 2010

8. Linkages with the Geoparks Network

Background:

Recent successful discussions and a face to face meeting of the executives have established links and a better understanding between OneGeology and Geoparks. The Geoparks network aims to protect geodiversity, to promote geological heritage to the general public as well as to support sustainable economic development of Geopark territories primarily through the development of geological tourism. This is a different mission to that of OneGeology but ultimately there are shared aims. The OneGeology website will also be developed to include more information and linkages to other organisations including geoparks and vice versa.

A representative of the Geoparks Network will present 'Opportunities for OneGeology and Geoparks'.

Paper #: None

Action:

The OMG are requested to **DISCUSS** the opportunities for collaboration between OneGeology and Geoparks.

OneGeology Operational Management Group

Meeting 5: 23 August 2010

9. Linkages with the YES Network

Background:

OneGeology has recently become more closely involved with the YES Network (Young Earth Scientist).

The YES Network invited OneGeology representatives to present and take part in a roundtable discussion at the EGU conference in Vienna in May 2010. The objective of the roundtable was to familiarize the geosciences community with the visible application of geosciences and identify areas of cooperation between YES and OneGeology.

Axel Tcheheumeni is a member of the YES Network Leadership Team and will present 'Opportunities for OneGeology and YES'.

Paper #: None

Action:

The OMG are requested to **DISCUSS** the collaboration and potential opportunities for OneGeology and the YES Network.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****10. Incorporation of OneGeology****Background:**

The basis for OMG discussion is a draft Summary of the process and first draft Articles of Incorporation. The draft Articles and this Summary were requested by the Steering Group and are currently being considered by them. OMG comment will feed into the next drafts of the Articles and this Summary. The paper will be supplemented by a PowerPoint presentation.

Paper #: OMG 5/06.

Authors of paper: Ian Jackson and Bill Barnett

Action:

The OMG are requested to **DISCUSS** the Summary and provide feedback for consideration by the Steering Group and the Secretariat.



Incorporation of OneGeology A Summary

Ian Jackson and Bill Barnett

July 2010

Contents

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- 2. Reasons for incorporation**
- 3. What is a Company Limited by Guarantee?**
- 4. Incorporation process and timeline**
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- 6. Structure of OneGeology CLG**
- 7. Level of participation required for incorporation**
- 8. Benefits of membership**

Incorporation of OneGeology – a Summary

1 Background

At their first meeting in April 2009 the OneGeology Steering Group considered a paper (*The future structure, governance and operation of OneGeology*) and took a decision to take forward OneGeology as a not-for-profit legal entity, with a separate but linked, funding “foundation”. At a telephone conference in November 2009, the Steering Group considered a second paper (*Options for not-for-profit legal entities*) and agreed that the Secretariat should move forward with a UK charity Company Limited by Guarantee (CLG), which would also provide for the creation of a linked funding entity – the “foundation”.

In January 2010 business managers and legal advisors of the Natural Environment Research Council (NERC - the parent body of BGS) began drafting the Memorandum and Articles of Association of OneGeology Limited – a charity CLG, under the UK Companies Act of 2006. At their annual meeting in April 2010, the Steering Group were given a presentation on the progress of the draft Memorandum and Articles document. Because the document is a complex legal one it was agreed that a short, plain-English summary should be produced; this is that summary.

2 Reasons for incorporation

The Steering Group agreed that OneGeology should move forward to incorporation fundamentally because they judged that it would give OneGeology more assured sustainability. If the current voluntary arrangement were to continue lack of a formal or legal identity would leave OneGeology with only the current “gentleman’s agreement” between the actors and thus little or no substance or security. A separate legal personality means OneGeology will have an established and transparent structure for its operation, with a defined agreement on its objectives and clear accountability. It would be able to enter into agreements in its own name, including, if the Board agreed, entering into formal relationships with commercial companies, in particular to seek sponsorship to further its objectives. Incorporated status would provide the capacity to enter into contracts and technical agreements for the maintenance and development of the portal site and the technology required to receive, manage and process data and, potentially, to employ staff to manage the operation.

3 What is a Company Limited by Guarantee?

In UK and Irish company law, a Company Limited by Guarantee (CLG) is an alternative type of corporation used primarily for non-profit organisations that require legal personality. A CLG comprises members who guarantee the liabilities of the company on its winding up, up to a certain amount. This is normally a nominal amount of £10 for each member but could be more or even less. Members can resign so there is a great deal of flexibility in the membership of such a company. A CLG has no share capital, but it can make profits and may have surplus assets on a winding up.

Subject to its objectives, a CLG can be eligible for registration as a charity company. The objectives of OneGeology are wholly appropriate for a charity CLG, i.e. its activities are anticipated as being regarded as exclusively charitable as designated by the UK Charities Act of 2006 and approved by the

Charity Commission. Directors of a charity company have two parallel sets of duties – as corporate directors and charity trustees.

A charity company is not taxable on its profits arising from its purely charitable activities. The assets and surpluses of a charity company are locked into that company and cannot be paid out to its directors or members; they can only be used for the purposes of the charity CLG, even if it is eventually wound up.

4 Incorporation process and timeline

Figure 1 outlines the basic steps in the process of incorporation of OneGeology, including those steps that have already been taken. The future steps and the dates within the timeline will be refined by discussion with the Steering Group, the Operational Management Group, and the members of OneGeology.



Figure 1.

5 Summary of the Memorandum and Articles of Association and what they mean

The intention is that OneGeology will be registered as a charity CLG under UK law.

The Memorandum of Association and Articles of Association are the two components of the constitutional documents of OneGeology Limited, and something all companies, including CLGs must have.

It was agreed by the Steering Group, that it is entirely in keeping with the purpose and ethos of OneGeology that it should have charitable status, and the constitutional documents have been drafted with a view to satisfying the requirements of the UK government charities regulator, the Charity Commission.

An application to the UK Charity Commission will be required to register OneGeology as a charity. A body is a charity if it is established under the laws of England and Wales and is established for exclusively charitable purposes only.

“Charitable purposes” are: those that fall within the categories set out in the Charities Act of 2006 (which include, for example, the advancement of education and the advancement of science); AND which are for the public benefit.

The directors of OneGeology as a CLG will also be charity trustees and will be responsible for the general control and management of the administration of OneGeology as a charity. This dual role – of director and charity trustee – is dealt with below.

Summary explanations of the Memorandum of Association and Articles of Association follow. This background information, which is based extensively on the draft Memorandum and Articles, and guidance notes provided by the NERC lawyers, is intended as a synopsis only of the key constitutional characteristics and features of OneGeology as a charity CLG. The information here is not intended to be comprehensive. The specific details will be provided in the Memorandum and Articles themselves.

5.1 Memorandum of Association

This is a very short statement setting out the subscribers, or members, of OneGeology at its incorporation. The members are the entities who will be giving guarantees in respect of OneGeology and who are akin to shareholders in a company limited by shares.

5.2 Articles of Association

The Articles contain the detailed provisions about how OneGeology will be governed and managed. The paragraphs below summarise the key Articles and issues.

Application of Model Articles

The Model Articles are pro forma provisions for the governance of a Company Limited by Guarantee laid down under the UK Companies Act of 2006. Their adoption is not compulsory, but the usual practice is to incorporate them into a company’s bespoke Articles and to exclude the provisions of the Model Articles that are varied by the bespoke Articles. It does mean, however, that the Model Articles need to be read with the Articles of Association as they form an integral part of them. OneGeology’s draft Articles reproduce the Model Articles as an annex for reference.

Objects and powers

These provisions set out the “Objects” (i.e. the reasons for which OneGeology has been established) and its powers (i.e. the things it is able to do). These have been drafted with the requirements of the Charity Commission in mind. The Objects which OneGeology Limited will be established for are:

- to make geological map data web accessible for the public benefit;
- to stimulate and accelerate the development and deployment of standards to achieve interoperability in the geosciences; and
- to promote and assist in the transfer of know-how and training in the application of such know-how in relation to the Objects to those who need it for the purpose of them contributing to the achievement of those Objects

Liability

This is the statement of the limited liability of the members of OneGeology. Members (and former members who ceased to be members within the previous year) are liable to contribute such amount as may be required up to a maximum of £10 in respect of OneGeology’s debts and liabilities upon a winding up. It should be noted that this provision refers to the liability of the members, not the directors/trustees. The potential liability of directors/trustees is a separate issue (see below).

Application of income and property

The income and property of OneGeology must be applied solely towards the promotion of its Objects. None of OneGeology’s income and property can be paid out or transferred to any of its members– it must be reapplied in pursuit of the Objects.

Directors’ benefits

These provisions regulate the relationship between OneGeology and its directors and are integral to the operation of a charitable company. It is important to note that no Director or connected person can be employed by or receive any remuneration from OneGeology. If OneGeology wishes to employ an executive director, the common approach is for that person not to be a “director” for the purposes of the Companies Act 2006 – i.e. not to have a seat on the Board.

Membership

This Article sets out the types of membership. There are three: Voting Members (of which there are two types – Geological Survey Organisations and Ex-officio Organisations), Non-Voting Members (to deal with the fact that there is only one Voting Member per country but where there is a federal system in place in the country and multiple surveys who wish to be members), and Associate Members (Geological survey organisations and non-geological survey organisations who do not wish, or are unable to, be full members of OneGeology Limited). The respective rights of Members and Associate Members are set out in detail in the Articles.

Members’ meetings and voting

These provisions govern the meetings of the members. This Article provides that the Board shall convene a biennial meeting of OneGeology. At general meetings of OneGeology every Voting Member has one vote. Non-Voting Members and Associate Members are not entitled to vote.

Appointment of Directors

The appointment and removal of directors is dealt with in these Articles. Each GSO Class, acting as a class, is entitled to nominate a Director to the Board. The appointment of a Director by a GSO Class must be made unanimously by all the members of that GSO Class – in other words, if the GSO Class members cannot agree on a nominated Director, they will not be able to appoint one. Additional Directors can be appointed under the Articles. The Articles also provide for alternate Directors to be appointed.

Directors' indemnity

It is important to note that the potential liability of Directors is different from the limited liability of the members provided for in elsewhere. But a separate Article provides for OneGeology's indemnification of any Director or former director against any liability incurred by such person in their capacity as a director, in line with sections the Companies Act of 2006.

The duties of directors and charity trustees

As indicated above, should OneGeology become a charity CLG its directors will have a dual role: they are not only directors but will also be charity trustees. Although the duties are distinct, the nature of those duties means that there is some overlap between them.

Operational Management

The operational day to day management of the company is delegated by the Board to a management team led by an Executive Director and supported by a Technical Director and Secretariat. They manage the operation in accordance with a business plan and budget determined by the Board.

Ex-Officio organisations and Observers

International organisations established for public benefit which the Board and members may decide to include as members of OneGeology and who will be able to send observers to the Board.

Advisory Committees

These provisions provide for the Board to establish advisory bodies to advise it on operational management and technical matters. Such Advisory Committees have no executive role in the management of OneGeology's affairs as their function is advisory to the Board.

6 Structure of OneGeology CLG

Figure 2 illustrates the OneGeology CLG governance structure. The components are described in the summary of the Articles in section 5.

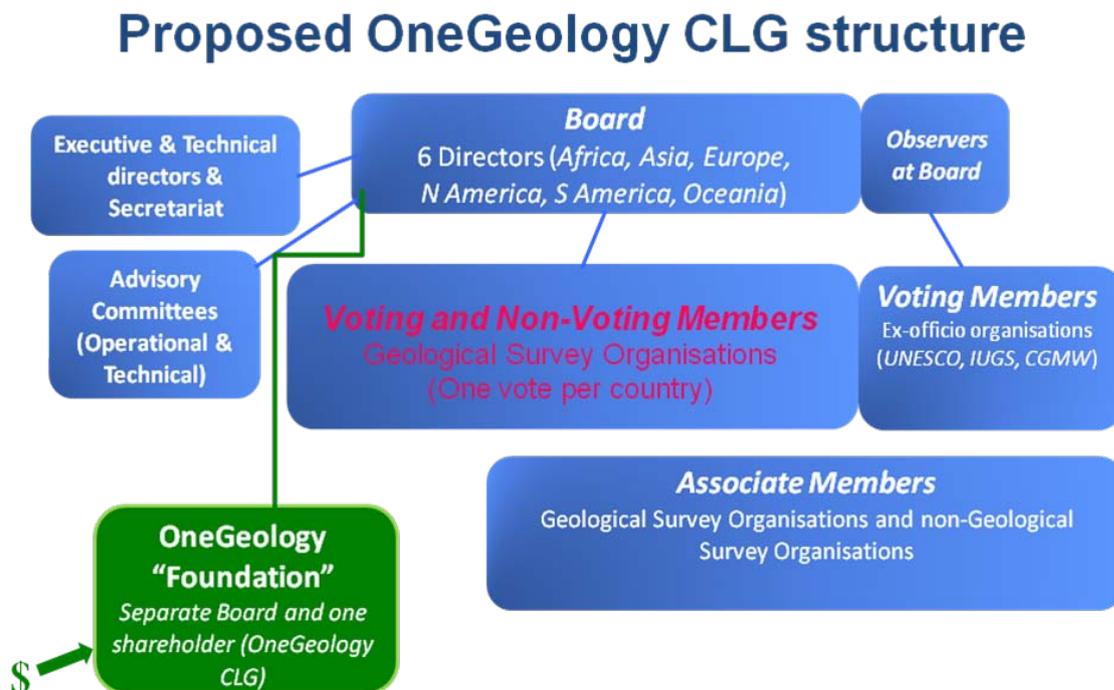


Figure 2

7 Level of participation required for incorporation

A critical decision will be how many geological survey organisation’s agreements are required as a minimum to proceed with the incorporation of OneGeology – the “trigger number”. The assumption is that once OneGeology Ltd is established, other geological survey organisations will join progressively and it will thus go on and expand from this initial core membership.

It is a reality of international scientific ventures, like the current OneGeology initiative, that the level of responsiveness of the partners is “varied”. And it is a fact that many of the geological surveys who are participants in OneGeology are relatively passive. It is also a fact that some geological survey organisations and their government departments will need a substantial amount of time and consideration before they will be prepared to formally join a legal entity. These factors mean that it would not be sensible to set the initial membership trigger number too high.

The initial proposal is that the trigger number of geological surveys prepared to form the CLG should be 12 (if the balance was ideal this would equate to two per continental region). It is also proposed that there is a period of transition during which OneGeology Limited should run in parallel to the

existing OneGeology initiative, allowing for the progressive migration of geological survey organisations to the new company.

This issue is obviously a very important one and the proposal above has been made as much as anything to stimulate debate.

8 Benefits of Membership

The prime benefit of membership is a collective one – greater assurance of the sustainability of OneGeology and delivery of its objectives. Moving OneGeology to a CLG will give a transparent structure for its operation, and with that, clear accountability. A CLG structure will provide the clear and strong foundation that members wish to have as a base for the future investment of valuable time and resources. The ability to seek sponsorship to further OneGeology’s objectives means that the current, and not insubstantial, costs of management and technical coordination could be offset by funds from commercial companies and NGOs who obtain downstream benefit from the data and services. With additional funds development and advancement of OneGeology’s goals can be accelerated, in particular the transfer and exchange of knowledge – allowing members to benefit from shared experience and up-to-date web access technologies, but especially training and capacity building in the developing world.

Finally, a stable and persistent OneGeology provides a powerful network, infrastructure, and foundation for the geological survey community to express itself and contribute to transnational and global science and issues.

OneGeology Operational Management Group

Meeting 5: 23 August 2010

11. OneGeology data provider accreditation scheme

Background:

This scheme is intended to provide incentives to improve the accessibility and quality of OneGeology geological map data services. The first version was discussed by the Steering Group in April 2010, and a revised version approved by them for implementation at their telephone conference in July.

Paper #: OMG 5/07.

Authors of paper: Ian Jackson, Francois Robida and John Broome.

Action:

The OMG are requested to **DISCUSS** the scheme, **AGREE** the logistical and technical details and **PROCEED** with its implementation.

OneGeology Data Provider Accreditation Scheme

1. OneGeology has global reach across 116 countries currently. It has introduced procedures and systems to make geological map data more easily accessible. The procedures and systems are state of the art and represent best practice in disseminating geological map data over the Internet.
2. At a recent meeting with the global GeoParks executive, we heard how they have a scheme to accredit all geological parks that wish to become GeoParks through evaluation against a set of best practice specifications. The objective of the accreditation is to encourage and maintain best practice.
3. This resulted in an idea – could we devise and introduce a similar scheme within the OneGeology community to progressively improve the accessibility of geological data and raise standards. By encouraging best practice, OneGeology could become more a pro-active force for good to progressively raise the quality of services.
4. The scheme would comprise a set of “levels” each with an associated logo indicating conformity to the requirements of that level. To achieve each level, participating surveys would have to demonstrate that their data met a series of simple criteria. The criteria become more exacting with each level.
5. Having demonstrated that they had met the criteria the geological survey would be able to place the logo on their website, or any other communications material they produce.
6. The criteria which are set out below were produced by reference to the OneGeology system, the GeoSciML protocols, the European INSPIRE Directive good practice in data and service sharing guidance, and the UK Government Information Fair Trader Scheme
7. The levels are set as incentives. They are designed to be practical and attainable. A reasonable degree of tolerance will be given; for example, if an issue which results in non-compliance is outside the control of the organisation, they will not be penalised. Annual evaluation of performance against the criteria by OneGeology is proposed.
8. A proposal on how this scheme might operate was first submitted to the OneGeology Steering Group at their 3rd meeting in New Zealand. The Steering Group discussed a revised proposal at their telephone conference on 6 July 2010 and agreed that this version should be implemented and that this should be done in a way that emphasized the incentive nature of the scheme. They agreed that this scheme should now be sent to the Operational Management Group so that the logistical and technical details of implementation can be finalised and the scheme put in place.

Ian Jackson, Francois Robida, John Broome

9 July 2010

OneGeology 4 Star Data provider



Technical service	Provide a GeoSciML Web Feature Service (WFS) compliant with IUGS-CGI vocabularies and IUGS-ICS classifications.	✓
Availability of service	WFS available 95% of year (365/24/7)	✓
Metadata	Up to date and available, including contact details and speedy process for obtaining more information published on line	✓
Access conditions	Clear statement of use relating to data, including licence and charging details (where appropriate). Access to data must be transparent, simple and fair to all.	✓

OneGeology 3 Star Data Provider



Technical service	Provide a GeoSciML Web Feature Service (WFS)	✓
Availability of service	WMS available 95% of year (365/24/7)	✓
Metadata	Up to date and available, including contact details and speedy process for obtaining more information published on line	✓
Access conditions	Clear statement of use relating to data, including licence and charging details (where appropriate). Access to data must be transparent, simple and fair to all.	✓

OneGeology 2 Star Data Provider



Technical service	Provide a Web Map Service (WMS) with a harmonised legend	✓
Availability of service	Up to date and available, including contact details	✓
Access conditions	Clear statement of use relating to data, including licence and charging details (where appropriate). Access to data must be transparent, simple and fair to all.	✓

OneGeology 1 Star Data Provider



Technical service	Provide a Web Map Service (WMS)	✓
Availability of service	Up to date and available, including contact details	✓

OneGeology Operational Management Group

Meeting 5: 23 August 2010

12. Recruiting new nations and increasing data services

Background:

OneGeology continually works towards increasing participation in the initiative. This is mainly done through being proactive and direct mailing, website information and conferences/exhibitions. Those nations not yet participating are listed in the paper OMG 5/08.

40% of OneGeology participants are currently serving data to the portal. Most of these services are WMS (Web Map Service). 60% of participant countries are not yet serving their data, (see list: OMG 5/09).

Paper #: OMG 5/08 and OMG 5/09.

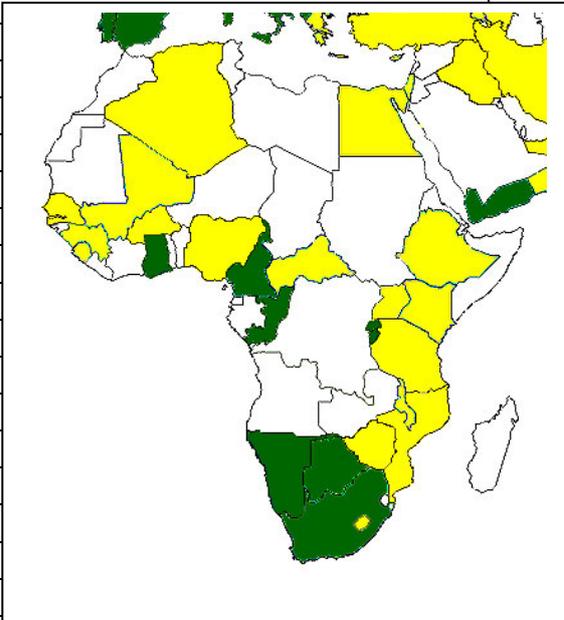
Action:

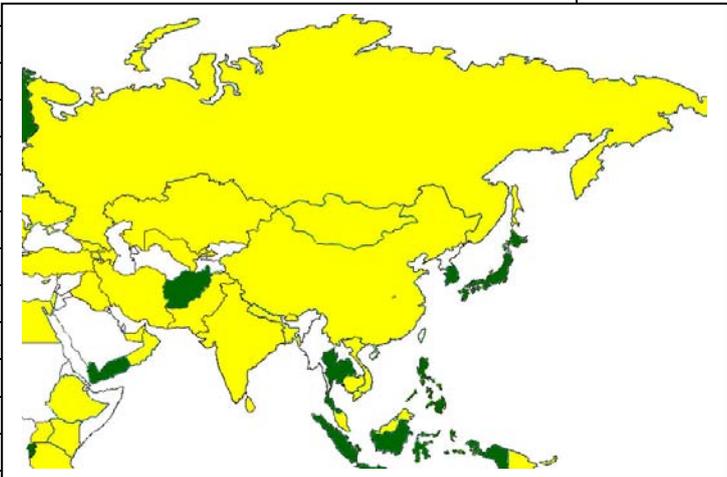
The OMG are asked to **SUGGEST** solutions for recruiting new nations.

The OMG are asked to **CONSIDER** the status of data provision and **SUGGEST** methods of increasing the number of nations serving data.

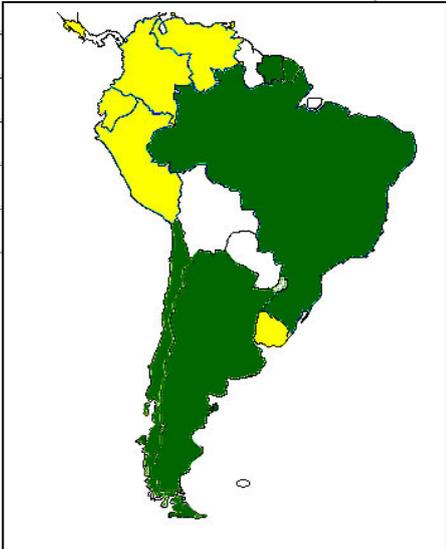
The OMG are asked to **CONSIDER** methods of encouraging more nations to provide more sophisticated WFS services.

Countries not yet participating in OneGeology

Africa	
Angola AGO	
Benin BEN	
Cape Verde CPV	
Chad TCD	
Comoros COM	
Cote d'Ivoire CIV	
Democratic Republic of the Congo	
Djibouti DJI	
Equatorial Guinea GNQ	
Eritrea ERI	
Gabon GAB	
Guinea-Bissau GNB	
Liberia LBR	
Libyan Arab Jamahiriya LBY	
Madagascar MDG	
Mauritania MRT	
Morocco MAR (pending)	
Niger NER	
Sao tome and Principe STP	
Somalia SOM	
Swaziland SWZ	
Togo TGO	
Tunisia TUN	
Western Sahara ESH	
Zambia ZMB	

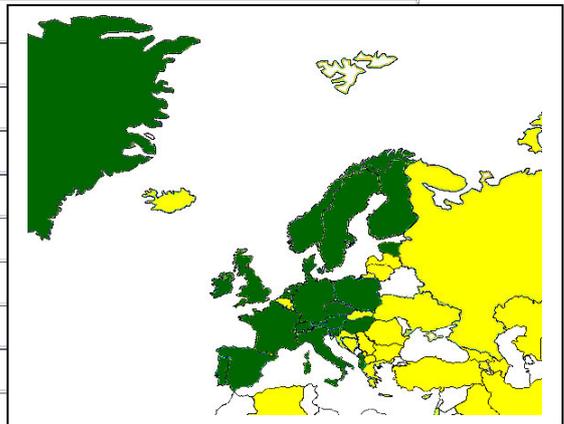
Asia	
Bahrain BHR	
Brunei Darussalam BRN	
Jordan JOR	
Korea (Democratic People's Republic of, North)	
Kuwait KWT	
Kyrgyzstan KGZ	
Lao People's Democratic Republic LAO	
Lebanon LBN	
Macau MAC	
Maldives MDV	
Mauritius MUS	
Myanmar MMR	
Qatar QAT	
Saudi Arabia SAU	
Seychelles SYC	
Syrian Arab Republic SYR	
Tajikistan TJK	
Turkmenistan TKM	

Central America	
Anguilla AIA	
Antigua and Barbuda ATG	
Aruba ABW	
Bahamas BHS	
Barbados BRB	
Belize BLZ	
Bermuda BMU	
Cayman Islands CYM	
Dominica DMA	
Grenada GRD	
Haiti HTI	
Honduras HND	
Jamaica JAM	
Montserrat MSR	
Puerto Rico PRI	
Saint Kitts and Nevis KNA	
Saint Lucia LCA	
Saint Vincent and the Grenadines VCT	
St. Helena SHN	
Trinidad and Tobago TTO	
Turks and Caicos Islands TCA	
Virgin Islands (British) VGB	
Virgin Islands (U.S.) VIR	

South America	
Bolivia BOL	
El Salvador SLV	
Guatemala GTM	
Guyana GUY	
Nicaragua NIC	
Panama PAN	
Paraguay PRY	

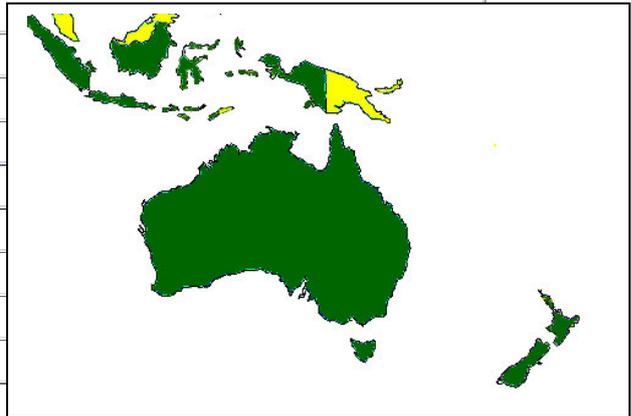
Europe

Belarus BLR (pending)
Faroe Islands FRO (pending)
Gibraltar GIB (pending)
Liechtenstein LIE
Malta MLT
Moldova, Republic of MDA
Monaco MCO
Montenegro
San Marino SMR



Oceania

American Samoa ASM
Cook Islands COK
Fiji FJI
Guam GUM
Kiribati KIR
Marshall Islands MHL
Micronesia, Federated States of FSM
Nauru NRU
Niue NIU
Northern Mariana Islands MNP
Palau PLW
Pitcairn PCN
Samoa WSM
Solomon islands SLB
Tokelau TKL
Tonga TON
Tuvalu TUV



Country participating in OneGeology



Country serving data to OneGeology portal now

OneGeology Member countries not yet serving data to the OneGeology portal

Africa
Country
Algeria DZA
Central African Republic CAF
Egypt
Ethiopia ETH
Gambia GMB
Guinea GIN
Kenya KEN
Lesotho LSO
Malawi MWI
Mali MLI
Mozambique MOZ
Nigeria NGA
Senegal SEN
Sierra Leone SLE
Tanzania, United Republic of TZA
Uganda UGA
Zimbabwe

Asia
Country
Armenia ARM
Azerbaijan
Bangladesh BGD
Bhutan
Cambodia
China
Hong Kong
India
Iraq
Iran
Israel ISR
Kazakhstan
Laos People's Democratic Republic LAO
Malaysia MYS
Mongolia MNG

Asia
Country
Nepal NPL
Oman OMN
Pakistan PAK
Papua New Guinea PNG
Singapore SGP
Sri Lanka LKA
Timor-Leste TMP
United Arab Emirates ARE
Uzbekistan UZB
Vietnam VNM

Europe		
Country	Signed up to 1GE	Data provider to 1GE
Andorra	Na	pending
Austria	na	yes
Belgium BEL	yes	yes
Bosnia and Herzegovina BIH	no	no
Bulgaria BGR	na	yes
Croatia (local name: Hrvatska) HRV	na	no
Cyprus CYP	na	yes
Estonia EST	yes	yes
Georgia GEO	na	na
Greece	na	na
Iceland ISL	na	na
Kosovo	na	na
Latvia LVA	na	yes
Lithuania LTU	na	yes
Luxembourg LUX	yes	yes
Macedonia, the former Yugoslav Republic of MKD	na	na
Portugal PRT	yes	yes
Romania ROM	na	na
Russian Federation RUS	na	na
Serbia	na	na
Slovakia (Slovak Republic) SVK	yes	yes
Turkey TUR	na	na
Ukraine UKR	na	na

North America

Country
Mexico MEX

South America
Country
Colombia COL
Ecuador ECU
Peru PER
Uruguay URY
Venezuela VEN

Central America
Country
Costa Rica CRI
Cuba CUB

Oceania
Country
Vanuatu VUT

OneGeology Operational Management Group**Meeting 5: 23 August 2010****13. Involving the marine domain****Background:**

Attempts to involve and engage the marine domain and improve access to marine geological data have so far been unsuccessful.

Paper #: None.

Action:

The OMG are requested to **DISCUSS** potential collaboration and methods to encourage involvement of the marine domain.

OneGeology Operational Management Group

Meeting 5: 23 August 2010

14. Developing the functionality of OneGeology

Background:

The issue is that the model and approach which OneGeology has adopted is seen by others as an appropriate way to make other data accessible, to exchange knowledge and develop standards.

Suggestions and requests continue to be made about this topic, but our resources to deal with it are limited. The Steering Group discussed and agreed that the initial aims of OneGeology (to serve geological map data for the world) should remain the focus until the IGC in 2012 and then, options for further development should be considered.

As part of the Steering Group discussions, it was suggested that OneGeology could be used to champion a small set of rock types (15-20) for the non-expert. An overview of this suggestion will be provided.

Paper #: None

Action:

The OMG are requested to **DISCUSS** this suggestion.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****15. Success Criteria review****Background:**

The Steering Group and the OMG agreed a list of Success Criteria to 2012; these are providing the goals for the OneGeology work programme and are regularly reviewed.

Paper #: OMG 5/10.

Action:

The OMG are requested to **REVIEW** the progress of OneGeology in accordance with these success criteria.

OneGeology Success Criteria for 2009, 2010 and 2012

	Success Criteria	By August 2009	By August 2010	By August 2012 (34 IGC)
1	Number of countries participating	110	125	140
2	Number of countries serving a WMS	55	65	70
3	Developed the technology, systems and documentation to serve a WFS	✓	-	-
4	Developed a new front end to the portal	✓	-	✓
5	Number of countries serving a WFS	10	25	40
6	Tested a prototype serving high resolution and applied geoscience data (including cross-border)	-	✓	-
7	Released a service for high resolution and applied geoscience data	-	-	✓
8	Developed initial version of standard geological terminology	-	-	✓
9	Number of third parties integrating OneGeology WMS/WFS into their web sites or web services	2	5	10
10	Integration of tools for metadata discovering into the portal	-	✓	✓
11	Refreshed the website at least monthly	✓	✓	✓
12	Held one OMG during the year	✓	✓	✓
13	Established a Steering Group	✓	-	-
14	Established a governance model	✓	-	-
15	Held one Steering Group meeting during the year	✓	✓	✓
16	Number of presentations/articles and papers	15/10	20/20	30/20
17	Define and clearly communicate IPR policy	✓	-	-
18	Establish a sub-Committee to produce a policy on different "channels" (universities, commerce, public)		✓	-
19	Produced a policy on high resolution and applied geoscience data	✓	-	-
20	Drafted, agreed and communicated a policy on sponsorship and commercialisation	✓	-	-
21	Registered OneGeology with the GEOSS Earth Observation portals	✓		
22	Subject to agreement on policy begin to negotiate with different NGOs, Donors (eg UN, World Bank) and possibly commercial sponsors	-	✓	✓
23	Designed and proposed a symposium/session for the 34 IGC	-	✓	-
24	Designed and implemented a booth, demonstrations and a symposium for 34 IGC and supply exhibition material for attendees at other conferences eg AGU/EGU	✓	✓	✓
25	Number of newsletters issued	4	4	4
26	Number of press releases	2	3	4
27	Organised series of international press conferences	-	-	✓
28	Engage and involve offshore community (with CGMW) to get offshore data (especially off continental shelf) into OneGeology	-	✓	-
29	Engage with GEO/GEOSS more specifically (with assistance from UNESCO)	✓	-	-

OneGeology Operational Management Group**Meeting 5: 23 August 2010****16. Plans for the IGC34 in 2012****Background:**

Plans are in progress for the next IGC (International Geological Congress) in Brisbane in 2012. OneGeology has registered involvement and a basic series of sessions as part of an information super symposium at the event. It is expected that both the 2012 meetings of the OneGeology Steering Group and the Operational Management Group will take place during this event.

Paper #: None.

Action:

The OMG are requested to **DISCUSS** the plans for the IGC events.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****17. Communications: including ideas for the next newsletter****Background:**

Communication and outreach continue to be a high priority for OneGeology. The website is dynamic and is updated at least weekly. Twitter and the OneGeology blog site have been introduced this year. Presentations at conferences and other events are frequently given and articles and papers have also been generated.

Since June 2009 four editions of the newsletter have been produced with a fifth due for publication following this meeting. The Newsletter is disseminated to over 2000 contacts worldwide.

Paper #: None.

Action:

The OMG are requested to **DISCUSS** the current communications and **SUGGEST** ideas for new content and platforms.

The OMG are asked to **SUGGEST** articles and ideas for future editions of the OneGeology newsletter.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****18. Workshops, training and conferences (including CAG23)****Background:**

The recent technical workshop held in Colombia in April was attended by representatives from 10 South and Central American countries. OneGeology has also been invited to co-run a workshop at the Colloquium of African Geology (CAG23) in Johannesburg in January 2011. This workshop will be presented as a consortium between OneGeology, AEGOS and GIRAF. OneGeology will also contribute information and materials to the GEO/GEOSS ministerial summit in Beijing in November.

Paper #: None

Action:

The OMG are requested to **DISCUSS** forthcoming events and opportunities and provide any further information to the OneGeology secretariat.

OneGeology Operational Management Group**Meeting 5: 23 August 2010****19. Any other business****Background:**

Items which arise after the issue of the final agenda and for which there will be normally be no papers.

Paper #: None

OneGeology Operational Management Group**Meeting 5: 23 August 2010****20. Date and location of next meeting****Background:**

This is the 5th OMG meeting. Please note that previous meetings have been held in Paris, Oslo, Ottawa, and Buenos Aires.

Paper #: None

Action:

OMG members are asked to **DISCUSS** the frequency of their meetings and **OFFER** and **AGREE** a location and date for their next meeting.