

Discrete Global Grid System

From: Martin Brady

Sent: 2. september 2016 01:00

To: Igor Kuzma; BUENO, Maria do Carmo Dias; Jerker Moström SCB; Amelia Wardzinska-Sharif; Janusz Dygaszewicz; Ana Maria Santos; Bloch, Vilni Verner Holst; Ignacio Duque Rodriguez; Matina HALKIA GFSG; KAMINGER Ingrid; Niek Van Leeuwen; COMENETZ , Joshua, Ph.D.; MacManus, Kytt; pbes@cbs.nl

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Emne: Re: Help with presentation? [SEC=UNCLASSIFIED]

Hi Vilni

One future development in grids is the Discrete Global Grid System that is currently under consideration by OGC.

<http://www.opengeospatial.org/projects/groups/dggsswg>

I see the main advantages of this system is in enhancing interoperability and flexibility of data use - geospatial and statistical.

But also the path to international standards for grids as a common geography within the global statistical geospatial framework.

I am not sure if you have come across it? It has recently come to our attention through our partners in the Australian federal mapping agency (Geoscience Australia) - they are very active in its development. It was also discussed at UN-GGIM.

I am trying to see if I can get someone from Europe to speak on it at the EFSGS conference. I would think there is someone from your part of the world to talk to on it. Let me know if you need a contact or at least get you some slides.

Regards

Martin Brady

Director

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Discrete Global Grid System

From: Purss Matthew

Sent: 8. september 2016 07:13:01 (UTC+01.00)

To: Bloch, Vilni Verner Holst; 'Martin Brady'; v@abs.gov.au

Copy: Matt Jakab (ABS); Thomas Walter; 'Roger Lott (EPSG)'; Peter Strobl

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Topic: RE: SV: Help with presentation? [SEC=UNCLASSIFIED]

Hi Vilni,

Here are a couple of slides that briefly describe what a DGG is and what the OGC Standard is trying to achieve.

We are a very open group and are open for all to contribute, no matter how much or little involvement they are able to invest.

Sometimes the little things contributed by a fresh set of eyes can lead to significant improvements ☺ .

The only caveat is that to be formally added to the DGG SWG you need to be an OGC Member.

Cheers,
Matthew

Dr. Matthew B.J. Purss

Senior Advisor – Geospatial Standards | National Earth & Marine Observations Group

Environmental Geoscience Division | GEOSCIENCE AUSTRALIA

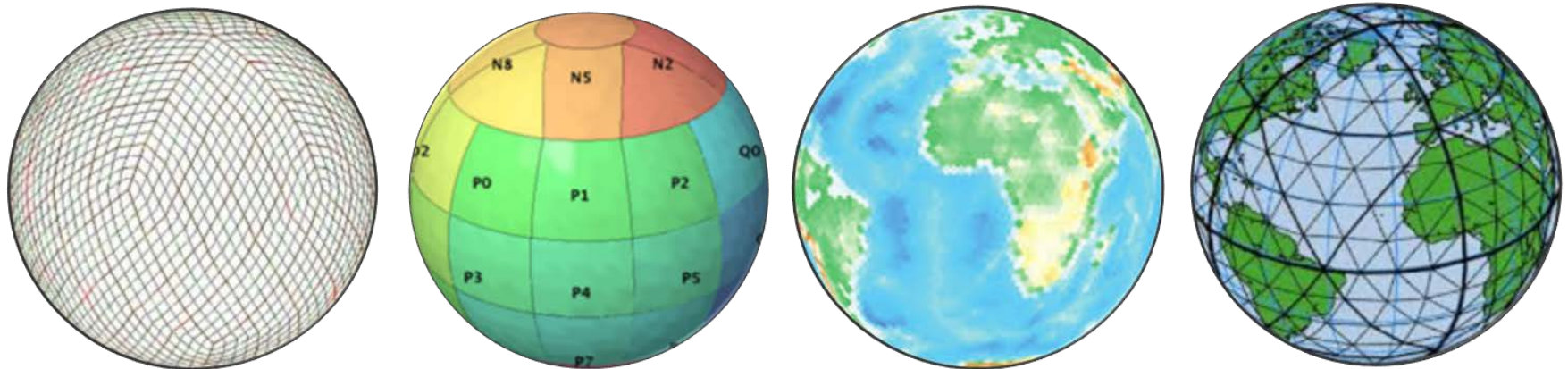
A “New” Framework for a New Era

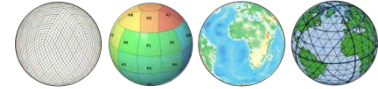
A Discrete Global Grid System (DGGS) is a Digital Earth reference model

DGGS are designed to be information grid systems, not navigational grid systems

OGC defines a DGGS as:

- “...a *spatial reference system* that uses a *hierarchical tessellation of cells* to partition and *address the globe*. DGGS are characterized by the properties of their cell structure, geo-encoding, quantization strategy and associated mathematical functions.”





Standardising Discrete Global Grid Systems

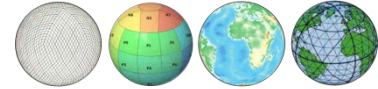
Why Standardize DGGS?

- The diversity, incongruity and lack of standardized applications of global grid infrastructures limits the development of accurate analysis tools for Big Earth Data

March 2014 – OGC established a Standards Working Group to address this problem

The OGC DGGS Core Standard defines:

- A concise definition of the term Discrete Global Grid System as a spatial reference system;
- The essential characteristics of a conformant DGGS; and,
- The core functional algorithms required to support the operation of a conformant DGGS.

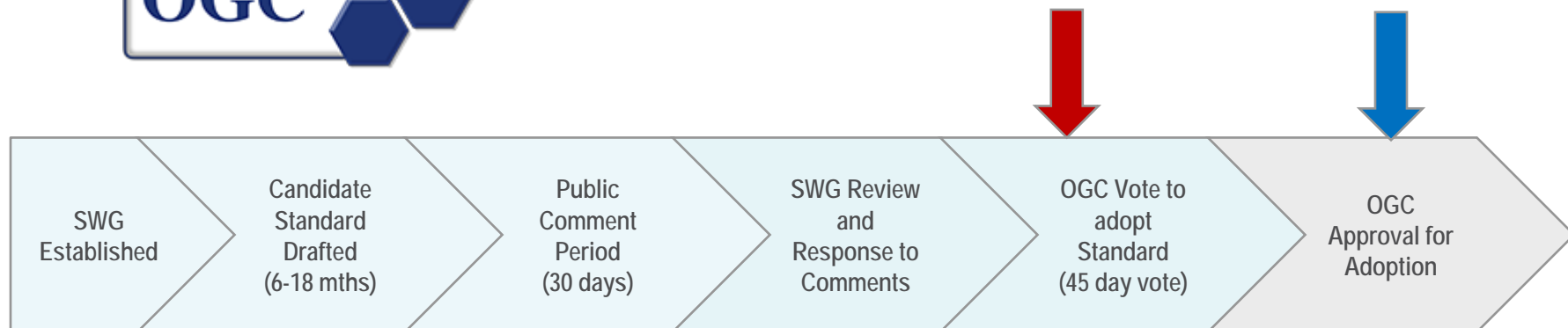


Standardising Discrete Global Grid Systems



DGGS Core
Standard v1.0

Adoption anticipated
Mid-late 2016



OGC Standards Development Pipeline

Discrete Global Grid System

From: Purss Matthew

Sent: 14. february 2017 00:03

To: Bloch, Vilni Verner Holst; Martin Brady; peter.strobl@jrc.ec.europa.eu; DGGS.SWG@lists.opengeospatial.org; m.brady@abs.gov.au; Kytt MacManus

Copy: Vilni Bloch

Topic: RE: HPRM: Status DGGS OGC? [SEC=UNCLASSIFIED]

Hi Vilni,

The standardisation of DGGS is moving ahead, although there has been a little wrinkle in the process that occurred in December last year.

Following unanimous support from the OGC Technical Committee (TC) the OGC Planning Committee chose not to approve the TC's recommendation that the DGGS implementation standard be adopted. The Planning Committees view was that DGGS as a technology was too fundamental, cross-cutting and important for the core standard to be published as a mere 'Implementation' standard and they have requested we resubmit the standard as a new OGC Abstract Specification, which has a higher status in the OGC Standards Hierarchy.

Having made the minor editorial changes necessary to recast the DGGS standard as an OGC Abstract Specification, we are now working through the adoption process again. **At this stage we are expecting the DGGS standard to be approved for adoption sometime in the next three months or so.** In parallel to this we are also busy establishing the governance structures to create and manage a registry of compliant DGGS implementations.

On the advocacy and implementation side of things I (and I'm sure the rest of the DGGS SWG) will be very keen to be involved with any and all DGGS related projects that are being initiated around the world. **There is a wealth of expertise within the core membership of the DGGS Standards Working Group in this area and I'm sure at least some of us may be available to provide input to these types of projects as they develop and come on line. Let's try to setup a teleconference sometime in the next week or so to explore this further.**

Kind Regards, Matthew.

Dr. Matthew B.J. Purss

Senior Advisor – Geospatial Standards | National Earth & Marine Observations Group

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