



5th Workshop

Break-out Group: Web Based Processing of Met Data

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What do we mean by 'Data'



- NWP forecasting and climate prediction: 5+D
- Obs in situ and remote sensed
 - Satellite: gridded, swathes
 - Radar: gridded, polar – more timely, so demanding
 - Crowd sourced obs, IoT: points and lines
- Archives
 - Re-analysis
- Manual products
- NWP products: generic, app specific (non-Met)
- Non-Met – geospatial stuff
- Metadata
 - DAR
 - Obs
 - Usage

What do we mean by 'Web' - 1



- In the 'cloud': continuum
 - SaaS, PaaS, AaaS, IaaS,
 - Virtualisation, resilience, power...
 - Distributed servers/Location opacity
 - Service end points, and protocols/APIs
- Leave data on server
 - Extract only what is required to go to the client
 - Could be geometry objects
 - Could be traditional met data
- Actionable information for a specific task
 - What goes to the server?
 - Automated web APIs http/https yes
- Cacheable? To give scalability for clients

What do we mean by 'Web' - 2



- **Browser/client based**
 - UI tailoring
 - User data/service preferences?
- **Web server based**
 - Usage logs
 - AAA Authentication, Authorization, Accounting
- **À la carte processing vs pre-defined (or “->”)**
 - E.g. researcher versus forecaster on shift
 - Processing protocols/APIs (WPS?)
 - Processing output metadata: could it be generated automatically?
Probably not?
 - E.g. WIS GISC 'Stop gap' metadata

What do we mean by 'Web' - 3



- Advertising process, data, services, ...
 - ISO19119 and ISO19139 -> ISO19115:2014
 - Registries for definitions/searches
- Multiple heterogeneous clients
- Connectionless subscription model
 - REST level 0,1,2,3,..., Stateful/stateless
 - Asynchronous/synchronous
 - Others? If time gaps not acceptable? KVP? SOAP/Post

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- Questions and Answers
- Use Case driven is the answer?
- What recommendations?