



WMO DATA CONFERENCE

EXCHANGE OF EARTH SYSTEM DATA
IN THE 21ST CENTURY

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16 - 19 NOVEMBER 2020
VIRTUAL CONFERENCE

Current challenges and opportunities include:

- Rapidly evolving data landscapes
- Need for sustainability of observations and data beyond the usual business cycles, for climate analysis and forecasting in particular.
- Stubborn data gaps, in developing world and elsewhere – how address?
- In face of current and rapidly evolving data landscapes, need business models and data policy to stimulate innovation
- Need to build better understanding between sectors
- Keep in mind our common end goal: to improve understanding of Earth System science to enhance our ability to predict – in order to protect life and property and enhance economies and lives around the world. – Data is the foundation.



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- The European data Landscape could soon change markedly (McCairns)
 - More Open Data could be made available soon
- Resolution 42 should be an enabler and not a blocker (McCairns)
 - Regular review of the annexes will keep it current
- No one-size-fits-all business model for the world? (Anderson)
- Data policy only one piece of the solution: many conditions for success in partnerships rely on other elements (clear legal mandates and stable funding for NMHSs, clear understanding of technical specifics and capacity limitations):



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- Clearly define the essential data elements needed for free and open access (Anderson)
- Distinguish/clarify between:
 - raw data and derivative products
 - time delayed data vs. real-time information
 - internal use and the right to share or distribute data



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- Create clear and enforceable data rights schemes
- Innovate data marketplaces and other aggregation and dissemination platforms
- Discussion on free and open access to data must be linked to infrastructure sustainability
- Deeper understanding is required in terms of the link between open data and socio-economic value for the benefit of the country
- Recognizing the advantages and importance of free and unrestricted exchange of meteorological and related data, we have the privilege to create a new era to meet the rapidly expanding needs of society and economy
- Due to the laws of physics, we can never be perfect, but we can still improve



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- Use opportunities to create new technologies and new ideas that can have positive influence on people's lives
- The success of the global weather enterprise, including research, education and operations, has been made possible by the free and open exchange of data under WMO Resolution 40
- The advent of commercial providers of satellite data could be a positive development, but if the data are not shared under the same free and open sharing principle, this continued success is at risk
- If government agencies purchasing commercial data treat them the same as they treat data that they generate, the potential benefits of commercial data can be preserved while the risks to the global weather enterprise are reduced