



NOAA

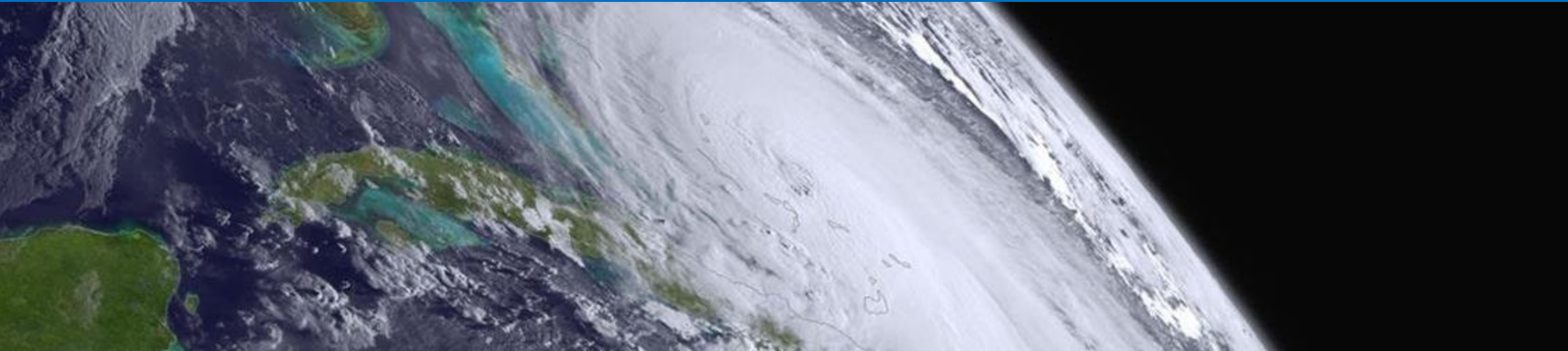
Incentive-Driven Weather Data Exchange

Global Weather Enterprise Conference

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Paradigm shift of global weather data management

- **Global weather data proliferation**
- **Management of big data**
- **Large observational data voids impact forecast skill**
- **Aging ICT infrastructure**
- **Resolution-40: well-intentioned, but difficult to enforce**
- **No incentive to share data**
- **Shrinking government investment in public NMHS**





Transforming WMO data-sharing infrastructure into an incentive-driven data exchange

- **Cloud platforms – builds on, and consistent with, WIS 2.0**
- **Stand up in parallel to GTS**
- **Regulatory framework (prevent off-market exchange)**
- **Blockchain tracking if needed**
- **Data reciprocity aimed at improving availability and access**





Direct benefits

- Encourages data exchange
- Resolution-40 will still exist
- Efficient exchange = improves access and speed / reduces cost
- Centralized scalable cloud repository
- Inherent means to QC data
- Competition decreases data cost and increases quality
- Explicit incentive for contribution
- Inherently accounts for changing global economic balance
- Leveraging existing migration to cloud-based infrastructure





Indirect benefits

- Encourages capacity building in data-void regions
- Incentivizes private investment
- Incentivizes public investment
- Accelerates research
- Harmonizing observation portfolios/spending among WMO members
- Spreads investment burden / reduces risk exposure





Thank You!

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