

Headquarters U.S. Air Force

Integrity - Service - Excellence

US Air Force Weather Overview WG/ODW



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Air Force Overview

- **AFW Mission**
- **A3WX Interagency Footprint**
- **WG/OD Coordination w/ AFW**
- **Open Discussion**



Air Force (AF) Weather Mission

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Global Power



Global Reach



Air Ops



Agile Combat Support



“Weather operations provides accurate, timely, relevant, and consistent air and space environmental information to AF and specified Army units, including their respective Reserve Components, and as directed, joint forces, coalition forces, and other agencies, such as those combat support agencies under the purview of the Under Secretary of Defense for Intelligence” – Weather Operations Mission, AF Policy Document 15-1, Nov ‘15



Army Ops



Global Vigilance



Special Ops



Space Weather

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Air Force Weather Mission

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- **Combat-ready Force**
 - **Data collection in non-permissive environments**
- **DoD cyber compliant data and communications tools**
- **Global Numerical Weather Modeling (NWM) for DoD ops**
- **AF NWM is interoperable with coalition partners**
 - **Meets AF, Army and Intelligence Community (IC) unique requirements**
 - **Available on multiple security enclaves**



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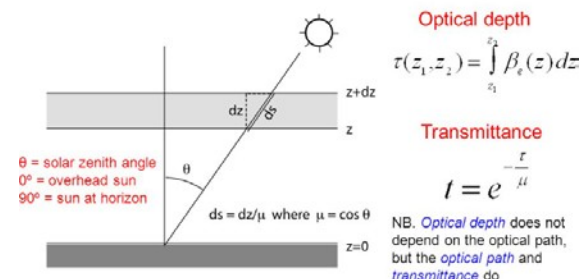
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AF Weather Operations Flight Plan, Our Future

- Environmental effects data for military operations
 - Cloud/Obscurant applications
 - Slant-path electro-optical (EO) effects
- Other focus areas:
 - Automated observing
 - Improved tactical/deployable weather equipment
 - Improve remotely piloted aircraft support
 - 5th gen aircraft support (directed energy, hypersonics)
 - Space weather model improvements



Slant and vertical atmospheric paths





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A3WX Interagency Footprint

- Plans environmental support for the AF wx functional area
- Leads weather integration with the Intelligence Community (IC)
 - Exploits wx support opportunities by capturing emerging requirements and translates into future capabilities
 - Direct link between IC partners and 2 WS Intel flight
- **Oversees integration of wx technology into C4I and modeling systems**
- Prepares answers for congressional inquiries (SBEM, NDAA, wx bills)
- Assists Sec AF Installations, Environment & Energy SAF/IE
- Collaborates environmental support issues with federal and non-governmental stakeholders
 - State Department, Global Water Strategy
 - Office of Science and Technology Policy
 - **Federal Aviation Administration, National Weather Service, National Environmental Satellite Data and Information Service...**



WG/OD Coordination w/ AFW

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- **AF/A3WX is gatekeeper for all AFW Interagency Meetings**

- **Phone: 571-256-8073; DSN 260-8073; usaf.pentagon.af-a3.mbx.a3wx-int-plans-reqts-workflow@mail.mil**

- **With recommendation from WG/OD Executive Secretary, A3WX will request further AFW participation in meetings to include:**
 - **557 WW Data SMEs**
 - **ACC (Lead Command for AFW) for programmatic issues**
 - **AFW Support Project Office (SPO); AFLCMC/HBAW for assistance in project solutions**

- **All binding interagency documents will be reviewed and approved from AF Director of Weather**



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DISCUSSION



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