This briefing is UNCLASSIFIED

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Navy Climatology History

• 1959: U.S. Navy climatology support was established in Asheville, NC.

• 1993: Navy climatology support was realigned and given the title Fleet Numerical Meteorology and Oceanography Detachment (FNMOD) Asheville. Co-located with NOAA NCDC and USAF 14WS. Contained a team of approx. 10-11 people.

• 2009: All Navy climatology was relocated to FNMOC in Monterey, CA.
  • Hardware not IA compliant = Started from ground zero.
  • Downsized to a team of 2

• 2010: ACAF Version 1.0 Operational

• 2012: ClimoPortal Version 1.0 Operational

• 2014: ACAF Version 3.0 / ClimoPortal Arctic

The Navy still has climatologists! Key to success = Automation!
We make climatological information available to you in many different ways.

- **Pre-made, static climatology products** (e.g., powerpoint, narratives, etc)
- **FNMOC model run** (e.g., WW3, NAVGEM)
- **NCDC weather station and ship observations**
- **Research orgs (e.g., NOAA, NRL) develop “reanalysis models”**
- **Tau 00 “analysis field” is copied into FNMOC Climo archive**
- **FTP’d to FNMOC Climo archive**
- **Validated by NPS for Navy operational use and downloaded into FNMOC Climo archive**

**ClimoPortal**
**ACAF**
**YOU!**
**Request Form**
**Custom tailored Product**
Data sets currently available in ACAF include atmospheric and ocean surface reanalyses, land/ship observations and archived FNMOC model analysis fields.

Resulting product can be tailored to fit the user's requirements (plotting options, latitude/longitude spacing).

Climate analyses can be refined to conditional analyses based on ENSO conditions.

Figure Types include Long Term Mean, Mean, Probability Threshold, and Anomalies.
ACAF Examples

NIPR:
https://portal.fnmoc.navy.mil/acaf/
Training Videos -
SIPR:
Training Videos -
NMME Use Cases / Wish List

MV Cape Ray – Syria Chemical Weapons
- Frequency of Occurrence Graphics
- Winds <15Kts for 3+ Days

USS Guardian – Grounding Philippines
- Wind/Wave Thresholds Exceeding
- Conditions persist for multiple days

Anti Submarine Warfare
- Surface and Subsurface Conditions
- SST, Salinity, Currents, Air Temp, Humidity and Winds
Questions?