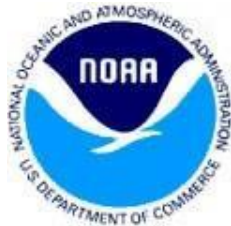# USMCC Backup Procedures

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USMCC Backup Procedures

- Backup options (in priority order)
  - Use in-house redundancy of NSOF USMCC in Suitland, MD
  - Operate NSOF USMCC remotely from the NOAA Center for Weather and Climate Prediction (NCWCP) in College Park, MD
  - Operate Offsite USMCC at Wallops, VA remotely from NCWCP
  - Operate Offsite USMCC locally from Wallops
- COSPAS-SARSAT partners provide backup during transitions and in case of system failure
  - CMCC (Canada) for national (RCC/SPOC) responsibilities
  - AUMCC (Australia) for international (MCC) responsibilities

USMCC Backup – In House

- Use in-house redundancy
  - Failover to on-site backup system has minimal delay
  - The backup system is configured the same as the operational system
  - In case of a hardware failure, the operational processes can quickly be enabled on the backup system
  - Should be transparent to RCCs, SPOCs, and MCCs
    - Phone numbers stay the same
    - Communication addresses stay the same
    - Message sequence numbers stay the same

    Email is not implemented into the USMCC (manual, last resort)

    Message Sequencing is by Destination (not by Comm Type)

    Data delays less than ½ hour do not trigger backups

USMCC Backup – Remotely Operate NSOF

- Leave NSOF, with computer systems still operating at NSOF
  - MCC Controllers move to NCWCP and operate NSOF MCC remotely
    - May have brief delay in contacting MCC Controller while in transit
    - **Phone numbers may change** (some failures at NSOF may not allow forwarding)
    - RCCs/SPOCs will receive a message providing the new phone numbers (if applicable)
    - Communication addresses stay the same
    - Message sequence numbers stay the same

USMCC Backup – Remotely Operate Wallops

- MCC Controllers bring up the Offsite MCC at Wallops, VA and operate it remotely from NCWCP
    - Phone numbers stay the same as above (NCWCP numbers)
    - Communication addresses will change
    - **Message sequence numbers will change**
    - **Alert sites may reform**
    - **Alert site numbers will change**
    - RGDB and IHDB are likely <u>not available</u> (RGDB, IHDB only at NSOF)
    - RCCs/SPOCs will receive a message with the above information
  - Operating the Offsite MCC remotely may be done as a transitional step while USMCC staff deploys to Wallops

USMCC Backup - Wallops

- Operate Offsite USMCC locally from Wallops
  - RCCs/SPOCs will receive a message about the changes
    - USMCC contact numbers change to Wallops phone numbers
    - Communication addresses will change
    - **Message sequence numbers will change**
    - **Alert sites may reform**
    - **Alert site numbers will change**
    - RGDB and IHDB are likely <u>not available</u> (RGDB, IHDB only at NSOF)

USMCC Backup – AUMCC & CMCC

- When USMCC at NSOF and Wallops are not available, C/S partners take over USMCC responsibilities:
  - CMCC will assume USMCC national responsibilities
    - Alert messages will be sent in SIT 185 format to RCCs and SPOCs
    - RGDB data will not be included in alert messages
    - RGDB and IHDB may not be available
    - Message sequence numbers will change
    - RCCs/SPOCs will receive up to 4 missed pass messages per location
    - RCCs/SPOCs will not receive data from US LUTs (including MEOLUTs)
    - CMCC supports US special programs with limitations
  - AUMCC will assume international (Nodal) responsibilities
    - AUMCC distributes data to MCCs in place of the USMCC
  - **CMCC still not yet LGM capable**

Questions?