Introduction to Silver Jackets for NROC

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SILVER JACKETS . . .

Interagency state-led flood risk mgt (and sometimes other hazards) teams

AND

Support by USACE National Flood Risk Mgt Program to achieve goals at state-level
NATIONAL FLOOD RISK MGT PROGRAM GOALS

**IMPROVE . . .**

- How we manage flood risk.
- How we support others who are managing flood risk.
- Linkages between flood risk management and other water resources challenges and opportunities.
SILVER JACKETS CONCEPTS

Silver Jackets teams are state-led

- Emphasis on state leadership
- Supported by USACE SJ Coordinator
- Supported by other Federal agencies too

SJ teams facilitate interagency projects & activities

- Each agency funds its own participation and work
- USACE Flood Plain Management Services Program (FPMS) funds set aside to provide USACE technical assistance to support interagency efforts
State SJ Team Participation

- **State**
  - Typically - State Hazard Mitigation Officer and National Flood Insurance Program Coordinator
  - Others – CTP, Emergency Managers, Water Boards, Transportation Dept., Environmental Protection, Geographic Information System Analysts

- **Federal**
  - Typically - FEMA, NOAA NWS, USGS, USACE
  - Sometimes - EPA, DOT, HUD, NRCS, NOAA OCM
  - Region Specific - BLM, USFS, USFWS, USBR, NPS

- **Others** - Tribes, local governments, NGOs, universities, and/or private
Life-cycle Risk Management

Activities are Funded by Various Agency Programs

PREPARATION / TRAINING
- Inundation Forecast Mapping
- High Water Mark Training
- Tabletop Exercises
- CRS
- Joint Levee Safety Communication

MITIGATION
- Buy-outs
- Evacuation Plans
- Inundation Mapping
- HAZUS Data Updates
- Hazard Mitigation Plan Updates and Actions
- Interim Risk Reduction Measures
- Flood Insurance Rate Maps
- Watershed Assessments

RESPONSE
- Real-Time Inundation Map
- Inter-state Basin Coord.
- Emergency Action Plans
  - Flood Warning Systems
  - Emergency Support Function

RECOVERY
- Nonstructural Measures
- Hazard Mitigation Grant Programs
  - Nonstructural FRM Workshops
- Flood Risk Mgt. Training & Education
- National Disaster Recovery Framework

Silver Jackets teams collaborate with Life-Cycle Risk Mgt in mind.
Interagency nonstructural efforts (FPMS)

Set-aside under FPMS, in addition to those FPMS funds normally allocated to Districts
- Interagency
  - At least 2 governmental partners beyond USACE
  - Other partners as helpful; not limited to governmental
- Nonstructural
  - Seek to reduce flood risk through nonstructural means
  - Reduce flood consequences (as opposed to altering nature or extent of flood hazard)

Goals:
- Collaborative work with partners
- Integrated solutions
- Outcomes: include or enable flood risk management action

Proposal process to allocate funds internally (typically for USACE labor)

Some Activities & Products

<table>
<thead>
<tr>
<th>Activities &amp; Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodplain delineation</td>
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<tr>
<td>Flood hazard evaluation</td>
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<tr>
<td>Hurricane evacuation</td>
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<tr>
<td>Flood warning / preparedness</td>
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<tr>
<td>Comprehensive floodplain management</td>
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<tr>
<td>Flood risk reduction</td>
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<tr>
<td>Urbanization impacts</td>
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<tr>
<td>Storm water management</td>
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<td>Flood proofing</td>
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<td>Inventory of flood-prone structures</td>
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<tr>
<td>Workshops</td>
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<tr>
<td>Guides and Pamphlets / Risk Communication</td>
</tr>
<tr>
<td>Tabletop exercises</td>
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<tr>
<td>Emergency Action Plan / Floodplain Management Plan Assistance</td>
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<tr>
<td>Assessment tools and processes</td>
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</tbody>
</table>
Interagency Nonstructural Efforts in Coastal New England

- **Risk Communication:**
  - ME High Water Marks: Portland, York, South Portland, Scarborough and Belfast
  - MA High Water Marks: Boston

- **Nonstructural Approaches**
  - Gardiner ME Flood Proofing Study

- **Modelling and Mapping Tools**
  - ME Dynamic Inundation Mapping Project: Casco Bay

- **Information Sharing**
  - NH Flood Hazards Handbook
  - CT Flood Toolkit

- **Analysis and Assessment**
  - RI Historical Structure Flood Hazard Vulnerability Assessment
### Example Project Summary Poster

**NEVADA**

**Nevada Flood Risk Awareness Project**

**Project Description**
- The Corps participated in several Nevada Flood Awareness Week events and provided educational outreach materials for public dissemination.
- Nonstructural flood proofing techniques were presented at workshops in Reno and Minden, NV.
- Stories, photos, maps, and infographics of past flooding on the Humboldt River were posted to the NV Silver Jackets website as part of the Nevada flood awareness project.

**Flood Risk Reduction Benefits**
- By making information publicly available, people are more aware of the effects of their actions in the watershed.
- Local outreach was conducted to inform and educate the public on local flood risks so that they can make informed decisions about threats to life and property.

**Successes/Best Management Practices**
- Information and examples provided can be used by local communities to avoid impacts to the watershed.
- When citizens know their flood risks, they can make informed decisions to minimize risk and the costs associated with emergency response during flood events.
- Public outreach during Flood Awareness Week will help agencies and communities work together to spread the word on flood risks.

**Partners and Project Cost**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Project</th>
<th>Sources</th>
<th>In-kind</th>
</tr>
</thead>
<tbody>
<tr>
<td>USACE</td>
<td>Nevada Flood Risk Awareness Project</td>
<td>$100K</td>
<td>$90K In-kind</td>
</tr>
<tr>
<td>NV Department of Water Resources</td>
<td>U.S. Geological Survey</td>
<td>$40K In-kind</td>
<td></td>
</tr>
<tr>
<td>National Weather Service</td>
<td></td>
<td>$40K In-kind</td>
<td></td>
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</tbody>
</table>

**Total Cost:** $140,000

**Project Point of Contact**
- Margaret Ingser
  - USACE Sacramento District

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### SEARCHABLE INTERAGENCY PROJECT TABLE

**File Name**

- [http://silverjackets.nfrmp.us/Resources/Interagency-Projects](http://silverjackets.nfrmp.us/Resources/Interagency-Projects)

**Interagency Projects**

- [Interagency Project Posters](#)

<table>
<thead>
<tr>
<th>State</th>
<th>Name</th>
<th>Description</th>
<th>Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK</td>
<td>Juneau Jakobshavn Inlet Accumulation Rate</td>
<td>Provide information for the future modeling of Jakobshavn (glacier outburst) and better delineation of at risk areas.</td>
<td>NOAA, USACE, USGS, Local</td>
</tr>
<tr>
<td>AK</td>
<td>Koyukuk High Water Mark Information Gathering</td>
<td>Collect high water marks, depict flood history, provide a flood information report to the community, and provide a bilingual flood risk awareness poster in order to make people in Koyukuk and surrounding communities aware of their flood flood.</td>
<td>Tribes, USACE, State, Local</td>
</tr>
<tr>
<td>AK</td>
<td>Northwest Arctic Borough Data Gathering and Dissemination Effort</td>
<td>This project provides five villages in the NNAW with UDAAR and a bi-lingual flood hazard information poster for dissemination throughout the Borough.</td>
<td>USACE, State</td>
</tr>
<tr>
<td>AK</td>
<td>Willow Creek Predictive High Water Scenario Planning</td>
<td>Perform high-water scenario modeling and mapping of Willow Creek by augmenting recently released FEMA maps to identify specific areas at risk beyond the regulatory floodplain; develop potential flood risk reduction measures.</td>
<td>NOAA NWS, USACE, USGS, State, Local, Private</td>
</tr>
<tr>
<td>AL</td>
<td>Alabama Flood Warning System Enhancement Project</td>
<td>This effort will yield completed inundation maps for Birmingham hosted on NOAA NWS website, build points to reduce flood insurance premiums, and improve flood risk communication.</td>
<td>FEMA, NOAA NWS, USACE, USGS, State, Local</td>
</tr>
<tr>
<td>AL</td>
<td>Valley Creek Inundation Mapping (Birmingham)</td>
<td>Build a hydrology and HEC-RAS model to complete inundation maps that will be hosted on NOAA NWS website.</td>
<td>NOAA, USACE, State, Local</td>
</tr>
<tr>
<td>AL</td>
<td>Village Creek Property Flood Risk Reduction Assessment</td>
<td>Update existing structure inventory and perform non-structural flood risk analysis with recommendations on a structure by structure basis.</td>
<td>FEMA, USACE, State, Local</td>
</tr>
<tr>
<td>AR</td>
<td>Bob Kirk Dam Flood Risk Assessment Mitigation Plan</td>
<td>A multi-purpose study to assess flood hazards, residual flood risk, dam break flood risk scenarios, and a mitigation strategy with an effective emergency response and communication plan, such as early warning systems.</td>
<td>USACE, USGS, State</td>
</tr>
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</table>
Key Takeaways

• Two program sources for Silver Jackets:
  ▶ Flood Risk Management (FRM) for Coordination and Collaboration
  ▶ Flood Plain Management Services (FPMS) for the Interagency Non-Structural Efforts (Technical Assistance)

• Silver Jackets teams are State run, each state has different team members depending on their needs.

• Additional opportunities for project collaboration:
  ▶ Flood Plain Management Services within each USACE district
  ▶ Continuing Authorities Program (CAP)
  ▶ And more…
Questions?

FOR MORE INFORMATION

USACE Silver Jackets Web Site

http://silverjackets.nfrmp.us/

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