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Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# Integration of Natural Resources and Bird/Animal Aircraft Strike Hazard (BASH) Programs

**Sustaining Military Readiness Conference**  
**Bird/Wildlife or Bird/Animal Aircraft Strike Hazard (BASH) Workshop**

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# Integration of NR and BASH Management Programs

- Coordination and collaboration are the core of the relationship between Natural Resources Program and/or Managers and BASH programs and include:
  - Integration of management plans
    - Integrated Natural Resources Management Plans
    - Wildlife Hazard Management Plans
  - Participation in the local BASH Working Group; and
  - Data sharing to improve management of wildlife hazards
- Chief of Naval Operations and Commander Navy Installations Command guidance provides specific roles and responsibilities for NRMs at Navy installations
- Natural Resources Management and BASH Programs are not mutually exclusive



NAS Jacksonville, FL



NAS North Island, CA



NAS Whidbey Island, WA

## Chief of Naval Operations M-5090.1, Environmental Readiness Program Manual states:

- BASH is not the responsibility of environmental and, as such, BASH management actions are not eligible for environmental funding
- Due to the potential impact on natural resources by a command's BASH Program, natural resources managers shall provide biological expertise to assist naval air installations, air operations, and aviation safety officers in preparing and implementing BASH programs and plans
  - Natural Resources personnel ensure compliance with all environmental permits including MBTA Depredation Permits
- To ensure consistency and compliance with installation INRMPs and applicable natural resources laws and regulations BASH Plans are to be reviewed by Natural Resources Managers



NAS Patuxent River, MD

## CNIC NAVY BIRD/ANIMAL AIRCRAFT STRIKE HAZARD PROGRAM IMPLEMENTING GUIDANCE states

- On installations that do have an Air Operations Officer and no Air Operations-funded USDA wildlife biologist, assist in managing the BASH program to include training wildlife dispersal team members
- Monitor the BASH program for compliance with all applicable state and federal environmental laws and regulation including, but not limited to, National Environmental Policy Act (NEPA), Sikes Act, Endangered Species Act (ESA), Migratory Bird Treaty Act (MBTA) and the Clean Water Act (CWA) and all applicable DoD, DON and OPNAV environmental policies, directives and instructions
- Ensure the local BASH instruction and Wildlife Hazard Management Plan (WHMP) are in compliance with the INRMP and any other applicable natural resources planning documents



NAS Key West, FL

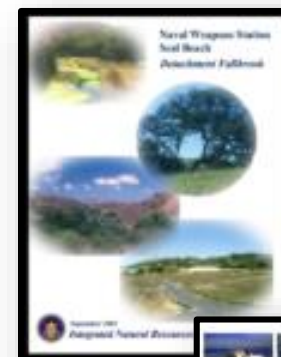


Pacific Missile Range Facility, HI

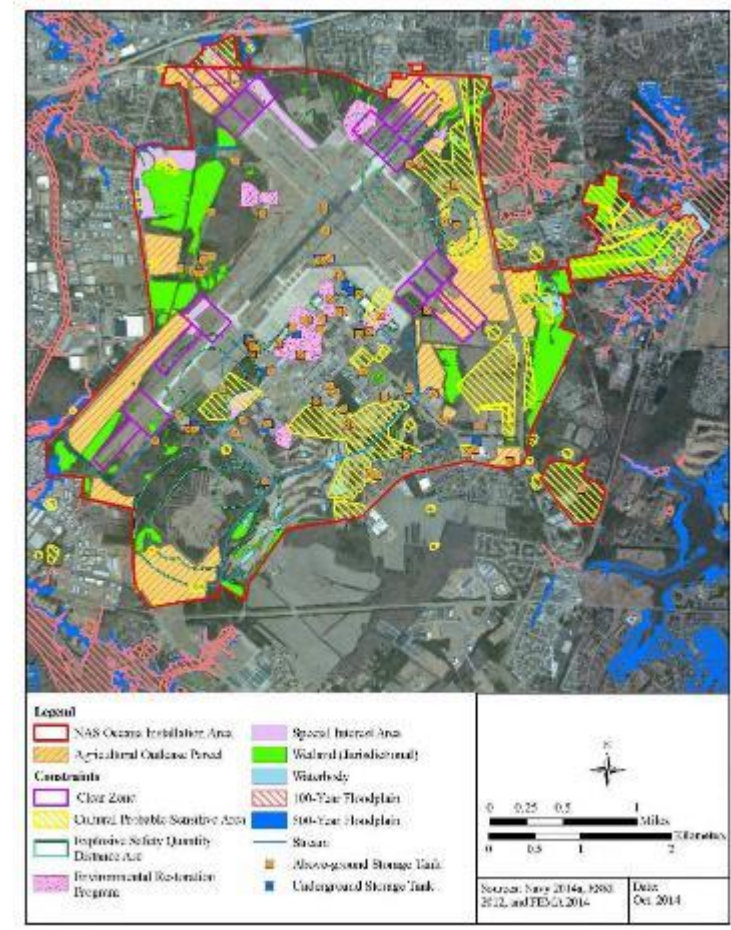


Naval Base Ventura County, CA

- NRMs serve as the BASH Program Manager on installations that operate aircraft, but do not have an Air Operations Officer assigned
- Ensure the INRMP addresses the BASH program. Coordinate INRMP revisions and updates with Air Operations.
- Interface with regulatory agencies and permit management offices to obtain and manage all applicable natural resources consultations and permits necessary to support the BASH program including, but not limited to, US Fish and Wildlife Services (USFWS) migratory bird depredation permits and Endangered Species Act consultations
- Ensure the Bird Working Group (BWG) considers sustainable land management practices, adaptive management and scientifically sound monitoring techniques in WHMP development.



- Support Wildlife Hazard Assessment (WHA) development by providing technical (environmental and biological) input, mapping support where available, quality analysis of data and risk assessments for identified wildlife hazards
- Ensure data collection procedures are sound and repeatable for annual monitoring and reporting requirements.
- Participate in the local BWG, airfield surveys and on-site technical reviews of the installation BASH program during periodic CNIC airfield evaluations, Safety Center surveys and annual BASH program self-assessments
- Coordinate with and assist the BASH Program Manager and Air Operations staff on all matters affecting Integrated Wildlife Damage Management (IWDM) planning and execution



## – Fish and Wildlife Management

- NAS Lemoore Burrowing Owl Relocation
- Laysan Albatross Relocation
- Federally Listed Species Management and Consultations

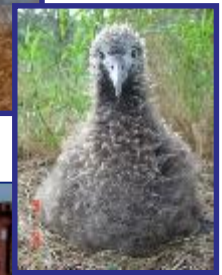


## – Invasive and Nuisance Species Control and Management

- Invasive Species Removal
- Pest Management Support
- Interdiction Support



## – Coordination with Pest and Facilities Management



## – Migratory Bird and Eagle Management

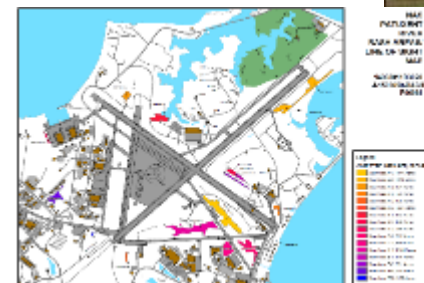


## – Wetlands Management



# Natural Resources Management in Support of BASH

- Vegetation/Forest Management
  - Southwest Vegetation Management
- Wildland Fire Management
  - Southeast Prescribed Fire Efforts
- Hunting and Fishing Programs
- Species Data Collection/Inventories
- Agricultural Out-Lease Programs
- Geographic Information Systems







NAS Key West, FL with Ed Barham, NAS KW IEPD, and Rosa Gonzales, USDA

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- **CNIC BASH Manual**

- A non-binding addendum to the CNIC Instruction 3750.1.
- Provides additional recommended guidance, procedures, and instructional material to serve as an aid to CNIC shore aviation commands in development and implementation of a successful BASH Program.

- **CNIC Wildlife Detection and Dispersal Team (WDDT) Training Guidelines**

- Establishes a formalized training program for a rapid response capability to deal with emergent BASH issues impacting flight operations at CNIC airfields.
- The Natural Resources Manager will ensure WDDT personnel adhere to all state and federal wildlife permits.