



Department of Defense Legacy Resource Management Program

PROJECT NUMBER (09-423)

**Department of Defense / PARC (Partners in
Amphibian and Reptile Conservation)
Strategic Plan Workshops**

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January 2011

DoD PARC Workshop Meeting
April 13-14, 2010
Crystal City, Virginia

Discussion Topics

Intro/Why DoD Should Care (Introducing *DoD PARC Strategic Priorities*)

- Benefitting/supporting military readiness
 - promote safety during training
 - venomous species, diseases
 - keep common species common so that installations don't end up as "islands of biodiversity concern"
- Science in support of military mission
 - addressing gaps in knowledge/needs
 - identifying what DoD PARC can do **now** to assist with military mission
 - identifying what **new** products/projects/materials/trainings that DoD needs from PARC
 - publishing/disseminating the good conservation work of the military
- Sikes Act compliance
 - training sessions/courses for natural resources managers
 - Sikes Act states that natural resource management is a requirement
 - strategic plan could be used to help address gaps of State Wildlife Action Plan (SWAPs) for DoD's purposes
 - ensure the strategic plan is still in compliance w/current installation plans, INRMPS, Sikes Act, etc
 - use of PARC's "regional responsibility" species lists for natural resource managers' consideration to avoid concerns with addressing "State listed species" issues
- Avoiding ESA listings (proactive measures)
 - no net loss from mission capabilities
 - habitat restoration/protection/mitigation
 - surveys and monitoring to determine what is there, population status, etc.
 - species conservation plans
 - need for expert input and review via PARC when Candidate Conservation Agreements (CCAs) are being developed
 - use PARC regional species lists to identify at-risk species on installations to drive proactive conservation plans/actions
 - make it clear: listing of species not a goal of DoD PARC
 - facilitate implementation of plans through PARC and partnerships
- Addressing NEPA
 - ensuring that impacts to amphibians and reptiles are considered in NEPA assessments
 - state listed species for NEPA docs (or State species of greatest conservation need (GCN) species from SWAP
 - proactive "avoidance" of herpetofauna so that NEPA doesn't come into play
 - project/facilities siting and planning
 - pesticide applications

- Education and outreach at installation and public level
 - value of herpetofauna
 - state laws and regulations/sustainable use
 - responsible care for pet herpetofauna on installations
 - education on invasive species
 - inventory and monitor training
 - awareness
 - addressing fear
 - proper response to venomous species
 - teach avoiding (or leaving alone) species first w/ physical handling as last option – true for all species, not just venomous
 - training for military personnel/natural resource managers
 - online training introduction sessions to attract participants to full-scale/live sessions
 - National Guard DCO = Defense Connect Online- training via live internet. Removes travel and is government approved. Use as introduction seminar option to advertise future workshops and to determine needs of DoD “one-on-one”
 - DoD PARC website for advertisement of trainings (and communication in general)
 - in-reach to trainers/operators at installation level
 - introduce education in a form that is relevant to their current practices/needs (sell it as SAFETY)
 - distinguish venomous vs. non-venomous species
 - general pest control (integrate into Armed Forces Pest Management briefings)
 - approach/educate soldiers directly; key in on general “interests” towards amphibians and reptiles
 - approach whole community on base- families, CHILDREN!!!
 - STEM program, state warden/game management, FLETC, S3/S4 briefs, homeland security
- Highlighting partnerships (existing, those to strengthen, new/non-traditional)
 - integration/collaboration with PIF and DoD PIF projects via Legacy program
 - U.S. Forest Service National Herpetofauna Initiative
 - NGOs
 - DoD working group of the Wildlife Society
 - professional societies
 - Armed Forces Pest Management Board
 - NMFWA/North American Wildlife and Natural Resources Conference
 - landscape conservation cooperatives
 - federal, tribal, state, and local agencies
- Improved communication and integration between DoD and PARC
 - communicating relevance of PARC to DoD
 - identifying a framework for DoD to participate in PARC and for PARC to participate in DoD PARC
 - active DoD participation on federal steering committee
 - DoD participation on each regional PARC steering committees
 - integration of PARC into existing DoD training opportunities
 - presence at Sustaining Military Readiness (SMR), Range, and related conferences
 - integrating PARC into NMFWA and vice versa

- PARC promotion in major DoD committees/meetings
 - assign/fund specific DoD PARC representative for direct communication (national coordinator/program manager)

Threats to Herpetofauna

- Habitat fragmentation, loss/alteration
 - road and rail mortality
- Climate change
- Unsustainable use (including use of herpetofauna for pets, food, bait, skins, etc.)
- Loss of biodiversity and proper ecosystem functions
- Lack of holistic/landscape approach to ecosystem management
- Invasive or nuisance species (w.r.t. military mission)
 - released pets (find a way to link pet herpetofauna to Lacey Act)
 - removal of non-natives to benefit mission
 - relocation or other management of venomous species to facilitate mission
- **Overall warning to DoD PARC:** use familiar topics, i.e. brown tree snakes, but avoid setting ALL herpetofauna into the “good vs. bad ” light- “They’re all good, but some are in a bad place”
- Disease and decontamination
 - surveillance protocol
 - rana virus, chytrid fungus, etc
- Contaminants
- Persecution/lack of awareness/ignorance

Other/Future Considerations

- How do we measure success?
 - are there outcomes and objectives consistent across branches?
 - are there existing INRMP metrics that we can aim to address?
 - current discussion in PIF (performance goals and accomplishments)
 - 10 areas of reporting that DoD PIF identified (see “Joe Hautzenroder Power Point”)
 - creates a “report card”
 - recommendation to create “performance goals and accomplishments” later, after DoD PARC established and first Strategic Plan published
 - DoD PARC should find common denominators within services
 - are the services embracing these objectives or feeling ownership?
 - do they feel that they have help to accomplish the objectives?
 - communicate that reporting by installations won’t influence funding
- DoD PARC strategic plan should “codify” AND enhance the MOU
- Need to smoothly “militarize” the existing PARC documents (HMGs, I&M, etc.)

Short Term Deliverables

- Annual DoD PARC meeting/workshop w/ NMFVA
 - NMFVA 2011 half-day on Monday?
 - DoD PARC workshop @ North American Conference
- Website and communication (funding and management of site)

- searchable data base with species lists including natural history data and installation locations
 - standardized installation herpetofauna surveys/questionnaires (to acquire installation inventories)
 - establish a system to upload and store or search data
 - PARC acquires data on-site vs. uploading by installations
 - acquire amphibian and reptile inventory lists for installations
 - disseminate through installation as handout (pamphlets, checklists, signs, posters, pdf docs)
- get PARC meetings/workshop info into NMFVA herpetofauna working group newsletter
- Have amphibian and reptile-focused *Natural Selections* issues once/year
- Meet some current identified installment needs
 - options for restricted herpetofauna pets
 - provide education on invasive species in ecosystems
 - provide individuals w/alternatives to releasing restricted pets
 - approach/training towards chytrid fungus
 - approach/training towards native nuisance species
 - identification/définition of habitats/micro-habitats
 - identification of vital amphibian and reptile species at regional level first for identification on installations
- Increase awareness
 - earth day amphibian and reptile activities
 - participation in National Public Lands Day- scheduled last Saturday in September
- Adaptation of “Don’t Turn it Loose” and chytrid disinfection protocols as brochures or links
- Further distribution of PARC HMGs
 - electronic copies of SE, NE, and NW?
 - separate online modules or “fact sheets”
- Generate revenue for amphibian and reptile via “stamps” (through Friends of PARC???), credit cards, shirts?

Wording/Focus of Strategic Plan

- Avoid use of conservation “buzz words” without providing PARC specific view of term (intentions regarding terms) to reduce possibility of “ESA-listing” phobias
 - focus on utilizing DoD/MOU lingo
 - no net loss of training/mission capability
 - stress sustainability, climate change, biodiversity, landscape/holistic environmental approach
 - tie PARC initiatives w/military initiatives → DoD PARC initiatives
 - orient towards specific regional installations
- “Why are amphibian and reptiles important to the military?”
 - what is unique/specific to DoD?
 - negatives
 - installation sites exposed to EVERYTHING; bombs, military vehicles, mock battles etc
 - positives
 - large labor force (just need to train them)
 - current ecosystem practices already in place (fire management)

- major funding opportunities (SERDP/ESTCP)
- research scientists on-site
- provide ways for them to integrate PARC initiatives into their research to broaden their opportunities to obtain funding

Logo

- Criteria:
 - retain PARC and DoD logos?
 - include military divisions
 - American flag or stars and stripes
 - amphibian and reptiles images/silhouettes
 - sponsor a logo design contest?

Acronyms

ACUB - Army Compatible Use Buffer
AFPM – Armed Forces Pest Management
BLM – Bureau of Land Management
CCA – Candidate Conservation Agreement
DoD – Department of Defense
ESA – Endangered Species Act
ESTCP – Environmental Security Technology Certification Program
FLETC – Federal Law Enforcement Training Center
GCN – Greatest Conservation Need
GIS – Geographical Information System
HMG – Habitat Management Guide
INRMP – Integrated Natural Resource Management Plan
I&M – Inventory and Monitoring
LCC - Landscape Conservation Cooperatives
MOU – Memorandum of Understanding
NEPA- National Environmental Policy Act
NGO – Non Government Organization
NMFWA – National Military Fish and Wildlife Association
ORV – Off-road Vehicle
PARC – Partners in Amphibian and Reptile Conservation
PIF – Partners in Flight
SERDP – Strategic Environmental Research and Development Program
SMR – Sustaining Military Readiness
STEM – Science, Technology, Engineering and Mathematics
SWAP – State Wildlife Action Plan
USFWS – United States Fish and Wildlife Service

List of Attendees

Block	Paul	Navy	NAVFAC ATLANTIC	paul.block@navy.mil
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DoD PARC Workshop Meeting
June 8-9, 2010
Sonora Desert Museum, Tucson AZ

Discussion Topics

DoD PARC Benefits to DoD

- Cost (\$\$ as well as effort/time) savings
 - prevention of ESA listing
 - “ounce of prevention”
 - proactive measures - creates cost savings
 - addressing species in INRMPs when not yet listed/stable
 - money is fungible (expendable), but species are not
 - ecosystem values
 - ecosystem health
 - indicator species
- Habitat quality
 - protect the quality of training lands for realistic training experiences.
 - protect military interests*
- Cannot replace species lost, protect rich, national wildlife legacy,
 - “country worth defending is a country worth protecting.” (Maj.Gen. Lehnert)

*military interests includes: training, testing, storage/depots, production facilities (ammo), force projection platforms (deployment)

Via the PARC Network, DoD PARC Can:

- Facilitate state-required permitting (collection, etc.) when applicable
- Assist in locating funding for projects
- Training of personnel for specific types of projects
 - range design considerations/recommendations
 - wetland mitigation/restoration/creation
 - roads/crossing structures (including dimensions, substrate, lighting)
 - safety – minimizing human-herpetofauna conflict
 - inventory/monitoring
 - habitat management
- Provide training on avoiding human-herpetofauna conflict (rattlesnake bite, invasive species, etc.)
- Advise on identification of and dealing with invasive species
 - possible creation of early detection and rapid response teams
 - define corridor development and other needs outside the installation to protect installation species
- Serve as the entity that addresses large-scale issues that are beyond installation capacity/abilities
 - regional-to-global issues
 - global climate change
 - connectivity/corridors
 - advise/engage in policy issues

- invasive species management
 - Landscape Conservation Cooperatives (LCCs)
 - disease management
 - illegal collection/wildlife trade/poaching
 - encroachment
- Use the local PARC infrastructure for specific projects
 - peer-review/expert advice on INRMPs
 - global capacity
 - expertise across world/network beyond US
 - *Bd* (*Batrachochytrium dendrobatidis*); amphibian chytrid fungus sampling
 - research
 - expertise as needed
 - research points-of-contact
 - addressing identified gaps
 - on-the ground contract work
 - access to universities – cheap labor from students
 - matching funds
 - publication of results
 - literature searches/syntheses
 - museum records
 - develop a species conservation agreement or plan
 - landscape-level conservation
 - mapping via GIS of populations inside and outside the DoD areas with consideration of key areas, corridors, opportunities for restoration, off-site mitigations, etc.
 - can use important herpetofauna areas criteria/implementation plan
 - need assistance with data processing especially with incompatible databases
 - management of outside lands acquired to buffer the installation
 - facilitate work on outside lands that can protect installation species and habitats (upstream effects, disease spread, weed and invasive species sources, etc.)
 - local capacity: other federal or state partners to facilitate work outside of installations

Incorporating Amphibian and Reptiles Conservation in Installations

- Ensure that amphibian and reptiles are addressed in every INRMP
 - get a category for herpetofauna into the INRMPs
 - **metric:** # of installations including amphibian and reptiles in INRMPs
 - work with Peter Boice to add an addendum to the new guidance for INRMPs to ensure that herpetofauna are addressed
 - include “keeping common species common”
- Ensure that every NEPA analysis includes herpetofauna considerations
 - **metric:** # of NEPA projects including amphibians and reptiles
 - add a amphibian and reptile “checklist” for NEPA documentation
- Develop standardized format for herpetofauna lists for every installation
- Use state wildlife action plans as a driver for addressing species beyond ESA-listed
- Training/capacity building:
 - devise training modules and workshops, possibly on-line

- natural resource staff is capable of doing the activities, but may be only 1 person per site, and may not have specific herpetofauna expertise
- share locally available expertise thru PARC network
- create options for approved course for continuing education credit, maybe on-line
- More and better Public Affairs regarding successes
 - commanders need good things to show off to the public for public relations and politics
 - reward installations for good environmental work, emphasize what good things are happening
 - work with the onsite public affairs offices to reach local community about good stories/good stewardship
 - need more outputs including peer-reviewed publications, success stories on work done
- ACUB (Army Compatible Use Buffer)/ Buffer Lands Acquisition/etc.
 - turn over buffer land from DoD to PARC partners for management/title ownership?

Installation Knowledge Gaps/Needs

- Need to support baseline inventories and ongoing monitoring.
 - common detection methods needed for comparative and trend analyses
 - monitoring of a few keystone species, establish trends
- Provide or identify research needs/priorities
 - drive priority projects on installations (Legacy or SERDP or outside projects have to meet these priorities)
 - create a searchable database of installation priorities
 - post on DoD PARC (or PARC) website or PARC listserv
- Identification of populations, historic ranges, mitigation or restoration opportunities
 - mapping via GIS of populations inside and outside the DoD areas with consideration of key areas, corridors, opportunities for restoration, off-site mitigations
 - can use important herpetofauna areas criteria/implementation plan
 - need assistance with data processing especially with incompatible databases/formats
- Need outreach materials, readable by anyone involved.
 - brochure, tri-fold, field cards, web links, pre-training materials, Smartphone app (Blackberry too?)
 - educate against the “kill all snakes” mentality
- Outreach/capacity building and coordination with third parties (e.g., Energy Industry, USFS, BLM, Homeland Security/Border Patrol)
- Addressing impacts to herpetofauna w.r.t. habitat management and military activities
- Impacts of trespass (metal collection/UXO, ORV, etc.)

Funding

- Identify existing efforts for funding
 - Legacy, Strategic Environmental Research & Development Program (SERDP), Environmental Security Technology Certification Program (ESTCP)
- Streamlining funding/contract administration/agreements
- Add-on sampling to existing contracts, low investment-high return
- Legacy:
 - PIF uses peer-review before submission to Legacy; need same for DoD PARC

- DoD PARC “Review Panel” can provide recommendations/guidance to strong herp proposal submissions to help further strengthen them
 - ideally, hire a DoD PARC coordinator within 1-2 years of strategic plan completion
- Friends of PARC
 - can facilitate project funding
 - low overhead 10%
 - some DoD agencies (e.g. NAVFAC) can function as a bridge between source of funds and Friends of PARC

Other Strategic Plan/Misc. Considerations

- Include DoD PARC MOU as appendix
- Create DoD PARC listserv
- Eventually need to create DoD PARC steering committee
 - installation members
 - Headquarters members
 - coordination (volunteers, to start)
 - need annual report
- Logo is important to many partners for recognition, branding, capture of mission
- Need to evaluate success
 - simple metrics (number of installations with herpetofauna checklist; number of installations addressing herpetofauna in INRMPS)
- Habitat Management:
 - prevent and manage invasive species including diseases
 - compilation of existing protocols for disease transmission
- Land use:
 - camping/recreation/ORV use
 - agricultural/grazing leases
 - federal lease lands (Forest Service, BLM)
- Unsustainable use
 - rattlesnake roundups in several states
- Fire management regimes/guidance
- Outdoor or feral cats are very destructive of amphibians and reptiles as well as birds
 - deserted pets are an issue when military personnel leave and cannot take pets
 - some bases ban pets
- Incorporate Landscape Conservation Cooperatives
 - opportunity to use USFWS funds/partnerships to work on military lands

Action Items:

- Recommend that the DoD PARC website is stand-alone (may be beneficial for longevity)
- Confirm that core members/Steering Committee should be in place concurrent with release of the strategic plan
- Identify DoD PARC representatives for Regional Steering Committees

DRAFT DoD PARC Mission Statement:

In support of military readiness, sustain amphibian and reptile populations and their habitats, through proactive and coordinated stewardship.

DRAFT Vision Statement 1:

To provide effective leadership on a departmental, agency, and installation level to improve conditions for (OR to enhance the welfare of) amphibians, reptiles, and their habitats for a future where common species remain common and imperiled species thrive.

DRAFT Vision Statement 2:

To provide effective leadership on a departmental, agency, and installation level to benefit (OR to sustain) amphibians, reptiles, and their habitats for a future where common species remain common and imperiled species thrive.

Road Ahead

- Finalizing minutes/joint workshop report
- Identifying writing team within next 1-2 months
 - section assignments/authors
 - developing consensus on overarching goals for strategic plan

DoD PARC Logo

- Less is more
- Needs to be crisp and sharp
- Need DoD PARC together
- Could put explanations on bottom of the poster, or literature or whatever but not on the actual logo
- Need to show reptiles and amphibians
- What is the main message?
 - who is the audience?
 - what will they perceive?
 - what images does a snake generate in the audience?
- WHAT IS THE MESSAGE BEHIND THE BRAND?
 - we (DoD PARC) exist
 - we are a partnership
 - we protect reptiles and amphibians on military lands
 - we help support the military mission

Other Discussions

Build use of GIS to support amphibian and reptile work on and around installations. Need to be able to use GIS to model and analyze data beyond just making maps, i.e. a habitat approach, land ownership approach, etc. Regarding management of outside lands, scope should mention landscape analysis approach to issues of species distributions and boundaries. Give or show examples in a graphic in plan?

Military activities – capture the concept

Provide standard practices for special projects, road crossing designs, lighting problems, etc.

There is the issue of military personnel not including natural resource consideration in projects, facilities designs, etc. Need to be proactive, keep our involvement from being perceived as a problem. Use HMG approach.

Formalize the cadre that contains the expertise

What is our reach back ability in our partnerships?

ISSUE: DoD is more than training lands and experiences. Examples: airfields and naval bases (force projection platforms), communication sites, storage, production plants, other. Military interests, military lands, military mission are better terms to use.

ISSUE: Ability of DoD PARC at strategic level to address issues beyond installation level (climate change, corridor concepts, migratory species, etc). Provide a broader context to installation-based decisions. Justify at an installation level, difficult. DoD PARC could recommend policy or actions relevant to the large-scale issue at hand (invasive species management, LCCs, disease management, illegal collection for wildlife trade, other trespass for many reasons).

For Projects: Each installation wants details on benefits specific to itself.

Compare East with West Coast Meeting Priorities

East coast focused on education and outreach. Every installation has specific concerns, need to judge whether it is important on any particular installation. Might educate about issue of releasing animals into the wild; about activities with consequences to mission. Trading cards to help species identification may be popular with kids. Educate on issues that base personnel are interested in.

Highlighting Partnerships section is unique in East Coast meeting

Compliance with Sikes Act

Focus on use of science

Metrics for measuring success (be careful what you measure, do not set up to start off with a failure, set the bar low enough; example: number of bases using herpetofauna in INRMP as increasing).

Set first year objectives, workshops, draft plans.

West talked about deliverables via Legacy program, review and ranking of the R&A projects, good startup idea.

Identify a set of large-scale priorities for DoD PARC for proposal reviews; recommend additions for critical data as needed. Reviewers use a point system as value to program assessment.

West is more concerned with recreational use of military lands.

Comments

- Need administrative support and program coordinators
- DoD PIF did not produce annual reports until about 5 years ago (Very important!)
- Want to identify the big items for the strategic plan, leave the specific details for later.
- What is the vision for the DoD PARC website?
 - first year maybe use Booz Allen to maintain, then find a paid person to take it over
 - consider other sources for web site design and management
 - prefer a standalone website

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SWAP – State Wildlife Action Plan
USFWS – United States Fish and Wildlife Service

List of Attendees

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