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Session C8- Migratory fish, Fish passage and the National Partnership between The Nature Conservancy and NOAA’s Community-based Restoration Program

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Migratory fish, Fish passage and the National Partnership - TNC and NOAA’s CRP

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Acknowledgments

NOAA Restoration Center
- TNC-NOAA National Partnership for Community-based Restoration

Private donors including the Kabcenell Family Foundation, Quay Foundation, Shell, and the Turner Foundation

20,000+ volunteers and dozens of Partners

The National Fish and Wildlife Foundation (NFWF)
Outline

Describe the National Partnership
   TNC- NOAA CRP (core prog – funding opp)

Very brief overview of 10 years of Partnership

Provide rationale for project selection

Describe main criteria for successful proposals

Case studies
TNC and NOAA CRP
Restoring Many Habitats
Restoration Target
- Shellfish reefs & beds
- Open Rivers projects
- Other anadromous fish
- Salt marsh
- Seagrasses
- Coral
- Mangrove
- Other
Restoration Target

- Shellfish reefs & beds
- Anadromous fish
- Salt marsh
- Seagrasses
- Coral
- Mangrove
- Other
The National Partnership

A series of 3 year agreements
2011 is the 2\textsuperscript{nd} year of the 4\textsuperscript{th} Partnership
- 2011 projects will be notified as soon as the NOAA spend plan is signed off
- Significant focus on shellfish 50\% of projects
- Migratory fish habitat 25\% of projects

2012 RFP out in early Feb
- open 6 to 8 weeks
- Projects notified end June (Approximately)

Funding $25-$85K
- Proof-of-concept scale

Sign up sheet for RFP! Pass along!
TNC’s Mission
Protecting biodiversity by protecting the lands and waters that native plants and animals need to survive

Conservation process – 4 components
- *Set priorities
- Develop strategies (Restoration)
- Conservation action (Restoration)
- *Measure success

Site is a priority in TNC Conservation Planning
- “Conservation By Design”
- Conservation priority setting based on data
- MARXAN optimization of result
- Provides ‘Portfolio’ or priority site list
- Accessed via web site AND contacting TNC
Proposal Criteria ‘TNC-NOAA CRP Partnership’

Community involvement
- *The C in CRP*

Restoration outcome
- Restoration footprint, important, accurately stated

Monitoring plan
- $ not limited
- Short & long term

1:1 Non-federal match required

Mitigation funds – Ask!
Ecoregional assessment
Check your site

Example.
FL Marine & Estuarine Priority Sites

Check with TNC chapter for updates

Stream barrier prioritization

Legend
Marine/Estuarine Priority Sites
- Red: Action Site
- Blue: Other Priority Site
- Line: State Waters
- Light blue: Study Area (500 meter isobath) & Subregions
Community involvement
- Some places it’s easy
Community involvement
- Some places it isn’t
Restoration footprint
Not planning / Design?
Other selection criteria

Multi species benefit
Emphasis on Ecosystem-Based Management
Linkages- Terrestrial, freshwater, marine

Partners

Capacity to leverage policy or incr. investment

Priority classifications, EFH, Listed Sp., nursery, Special management areas

• A somewhat difficult fit with many aspects of migratory fish habitat restoration
• An innovative approach required
Alabama & Cahaba Rivers – fish barriers
Partner with ACoE
Add pumps & attractant flows
Create a schedule of loch operation during migration
  Independent of boat traffic
Huge restoration potential

Community engagement through monitoring
Acoustic tracking & Monitoring loch
Tagging and tracking done with volunteers
Fisher surveys
Northern CA Salmon habitat

Developing cost effective ways to add large woody structure
Without engineering
Humboldt Bay, CA
North Coast Regional Land Trust

Remove tide gate  Construct sloughs

Construct backwater ponds

Huge volunteer investment in revegetation
Tidal reconnection, Coho salmon habitat

Fish monitoring using
   Nets
   Traps
   passive integrated transponder (PIT) tags & receivers

All indicate huge value to pre-yearling coho salmon
Overwintering / growth habitat
Salmon Creek CA, Occidental Arts & Ecology Center

Providing shelter habitat for salmonids waiting for estuary opening Outreach via Ecology Center coursework
Zemco Dam Removal, CT
Common New England scale dam removal

Developing sediment control Mechanisms

Visitor center & trails
Conclusions

• TNC-NOAA CRP Partnership does fund fish passage
• Small scale
• Component of a larger project
• Requirements of Partnership can make meeting criteria difficult

• Viable option when criteria can be met
  Community involvement
  Restoration outcomes
  Sound monitoring of results

Contact NOAA RC and TNC staff