

Work Plan

The proposed work plan for the PACN occurs across 7 years and is based on the following assumptions:

1. Adequate funding;
2. PACN project management and contracting capability;
3. Hiring experienced field work, mapping and classification staff or contractors;
4. Necessary logistical support from the parks, including helicopters, research permits, access to restricted areas, and the use of remote campsites;
5. Avoidance of any major problems.

After the data review, meetings and drafting of the work plan, vegetation mapping and classification tasks were started in FY07 and continued through FY08. Work progressed in a stepwise fashion based on the proposed timeline (**Table 3**) starting with classification, data collection and mapping at KAHO, PUHE, and PUHO. Progression of work will continue to complete AMME and WAPA and field work and sampling designs will begin at HAVO and progress to HALE, KALA, and NPSA with mapping to follow. Finally, if funds are secured ALKA will be completed as the last project. It is anticipated that following the proposed timeline steady work will continue through FY15. All work is contingent on funding and staff levels. If these are increased work can be accelerated and if they decrease work will have to be stretched over more years.

Comment [pl7]: You say 9/2015 in table below.

Table 3. Proposed Timeline for PACN Vegetation Mapping.

Order	Park(s)	Start	Completion	Comments
1	PUHE, PUHO, KAHO	Spring 2008	Sept. 2010	Small Parks on Hawaii
2	AMME, WAPA	Spring 2008	Sept. 2011	Small Remote Parks
3	HAVO	Spring 2008	Sept. 2014	Very Large Park
4	NPSA	Summer 2009	Sept. 2012	Large Remote Park
5	KALA	Winter 2010	Sept. 2014	Medium Park on Molokai
6	HALE	Spring 2010	Sept. 2014	Medium/Large Park on Maui
7	ALKA*	Spring 2008	Unknown	Linear Trail on Hawaii

Comment [GK8]: I changed these end dates to coincide with the FY. Anything more exact becomes a wild guess.

*Portions of ALKA occurring in HAVO, KAHO, PUHE, and PUHO will be started in 2008. The remaining sections will be completed as access and funds are available

Please note that this plan is probably the most optimistic choice and back-up contingencies will be considered. Any delays will likely be due to lack of funding or unforeseen complexity and logistical issues. Contingency plans will be considered, with the simplest being to delay the start of new parks and possibly stretching the field work and mapping over additional years. The following is a detailed outline of the PACN work plan by fiscal year.

Fiscal Year 2008

Planning Meetings:

- Project Kickoff Meeting for HAVO, ALKA, KAHO, PUHE, and PUHO combined in the Spring
- Contact interested neighbors and finalize project boundaries

Field Data Collection:

- Hire and/or contract field teams (NPS, contractor or both)
- Start and complete field work for PUHO and KAHO

Classification:

- Create MS Access database for PACN
- Contract NatureServe for classification

Mapping:

- No work planned.

Accuracy Assessment:

- No work planned

Final Deliverables:

- No work planned

Fiscal Year 2009

Planning Meetings:

- Contact interested neighbors and finalize project boundaries
- Meet with staff of KAHO, PUHE, and PUHO to review draft maps

Field Data Collection:

- Prepare sampling scheme for HAVO and NPSA
- Train crews in AMME, WAPA and HAVO
- Start and complete field work at HAVO
- Complete field work at PUHE, WAPA, and AMME
- Start and finish AA work at PUHE, PUHO, and KAHO

Classification:

- Complete preliminary lists for all of the PACN parks -based on existing data and local knowledge (compiled by NatureServe and reviewed by PACN staff and local NPS staff)
- Deliver PUHE, PUHO, KAHO, AMME, and WAPA data to NatureServe
- Finalize classification for PUHE, PUHO and KAHO
- Complete preliminary classifications for WAPA, AMME, and NPSA

Mapping:

- Decide on mapping approach and hire mapping contractor for rest of parks
- Start and finish mapping at KAHO, PUHE, and PUHO
- Start mapping at AMME and WAPA
- Finish mapping KAHO, PUHE, and PUHO

Accuracy Assessment:

- Create AA sampling scheme for PUHE, PUHO, and KAHO
- Start and finish AA analyses for PUHE, PUHO, and KAHO

Final Deliverables:

- Progress reports from mapping, field work and classification teams

Fiscal Year 2010

Planning Meetings:

- Meet with staff of AMME and WAPA to review draft maps

Field Data Collection:

- Prepare sampling scheme for KALA and HALE
- Train crew at NPSA, KALA and HALE
- Start and complete field work at NPSA and KALA
- Start and complete AA field work at AMME and WAPA
- Complete field work at HAVO
- Start field work at HALE

Classification:

- Deliver HAVO, KALA, and NPSA data to NatureServe
- Finalize classification for HAVO and NPSA

Mapping:

- Start mapping at HAVO and NPSA;
- Start and finish mapping at AMME and WAPA.

Accuracy Assessment:

- Create AA sampling scheme for AMME and WAPA;
- Start and finish AA analyses for AMME and WAPA;
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Final Deliverables:

- Create final report, metadata and GIS layers for PUHE, PUHO, AMME, WAPA and KAHO
- Progress reports from mapping, field work and classification teams.

Fiscal Year 2011

Planning Meetings:

- Meet with staff of HAVO and NPSA to review draft maps

Field Data Collection:

- Complete field work at HALE;
- Start and finish AA field work at NPSA;

Classification:

- Finalize the classification for HALE and KALA ;
- Deliver HALE data to NatureServe.

Mapping:

- Finish mapping at NPSA.
- Start mapping at KALA.

Accuracy Assessment:

- Create AA sampling scheme for NPSA
- Start and finish AA analyses for NPSA;
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Final Deliverables:

- Create final report, metadata and GIS layers for NPSA;
- Progress reports from mapping, field work and classification teams.

Fiscal Year 2012

Planning Meetings:

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- Meet with staff of KALA and HALE to review draft maps
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Field Data Collection:

- Start and finish AA field work at KALA;

Classification:

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Mapping

- Finish mapping at KALA;
- Start mapping at HALE

Accuracy Assessment:

- Create AA sampling scheme for KALA
- Start and finish AA analyses at KALA.

Final Deliverables:

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- Progress reports from mapping, field work and classification teams.

Fiscal Year 2013

Planning Meetings:

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Field Data Collection:

- Start and finish field work at ALKA

Mapping

- Finish mapping at HAVO and HALE
- Begin mapping at ALKA

Accuracy Assessment:

- Create AA sampling scheme for HAVO
- Start and finish AA analyses at HAVO

Classification:

- Finalize the classification for ALKA

Final Deliverables:

- Create final report, metadata and GIS layers for HAVO and KALA;

Fiscal Year 2014

Field Data Collection:

- Start and finish AA field work at HALE and ALKA

Accuracy Assessment:

- Create AA sampling scheme for HALE and ALKA
- Start and finish AA analyses at HALE and ALKA

Final Deliverables:

- Create final report, metadata and GIS layers for HALE and ALKA

Project Management

Critical to success of the PACN vegetation mapping project is the overall management of the projects. Since the network is ultimately responsible for conducting other inventory and monitoring studies they are well-suited to provide project management. Management of the vegetation projects will likely be in the form of a team containing both an experienced contractor and NPS staff support. From this team a management point of contact or coordinator will be established to oversee these projects and to implement the work plan. Their primary responsibility will be to budget time and money, maintain work flow, and insure that very consistent and accurate products are created.

At project start-up it is essential for the PACN coordinator to work closely with the field crews to insure that data are collected in a consistent fashion and that any plant associations found in multiple parks are named the same. Consistency involves creating the sampling design and the field forms, training the crew members, and working closely with NatureServe as they analyze the data. Also, upon the start of the mapping, the coordinator will take a very active role in setting-up the mapping scheme and creating uniform map classes. This will likely involve creating PACN-wide map units based on the NVC and including any park-requested special map classes. Once draft maps are created, the PACN coordinator will thoroughly review them to insure a consistent level of detail for each park. Finally, the coordinator will help design and edit the final reports and create uniform products.

At the start of the project and throughout, the coordinator will concentrate on securing the necessary funding and in-kind support from PACN, the individual parks and the national program. As the funds become available the coordinator along with a NPS contract specialist will be responsible for distributing the money to the various cooperators and contractors. It is anticipated that this will include the hiring and funding for the following entities:

- Classification = NatureServe's Western Regional Office
- Mapping = BOR/CTI and possibly other Contractors
- Field Work = Combination of Experienced Botany Contractors and NPS staff

In addition to hiring and funding, the coordinator and project management team will work on acquiring the necessary research permits, secure housing, contact neighbors, and meeting facilitation. The team will also be monitoring the work and heading-off any potential problems. Good communication is essential to these projects and the management team will be constantly reviewing the projects through regular telephone calls, field trips, electronic mail, meetings, and websites.

Since project management will be on-going through the entire project the estimated costs and labor for these tasks are separated and presented below. The costs are split by year and the following rates were applied: Coordinator = \$500/day and Technician = \$300/day. Other direct costs (ODC's) were estimated on the amount of materials and travel if needed for each task. The amount of funding and labor (in days) for each task were based on the following assumptions:

Assumptions:

- One PACN staff member (FY09 Botanist new hire) will be tasked as the project coordinator;
- The project coordinator will work part-time on this project along with other duties;
- The project management team will include a contract specialist;
- The project management team will create the PACN database to store sample data (i.e. plots, observation points and accuracy assessment points);
- The project management team will include an experienced, contracted GIS specialist to help design the sampling schemes for the big parks, help design the accuracy assessments, and help create supporting field maps and GPS data.
- The project management team will include a technician to enter all of the plot and AA data;
- The project coordinator will edit all sections of the final reports and work with the various contractors to create the necessary deliverables;
- Project funding for these tasks will come from a variety of sources including existing PACN budgets, other PACN funds and NVMP project monies.