

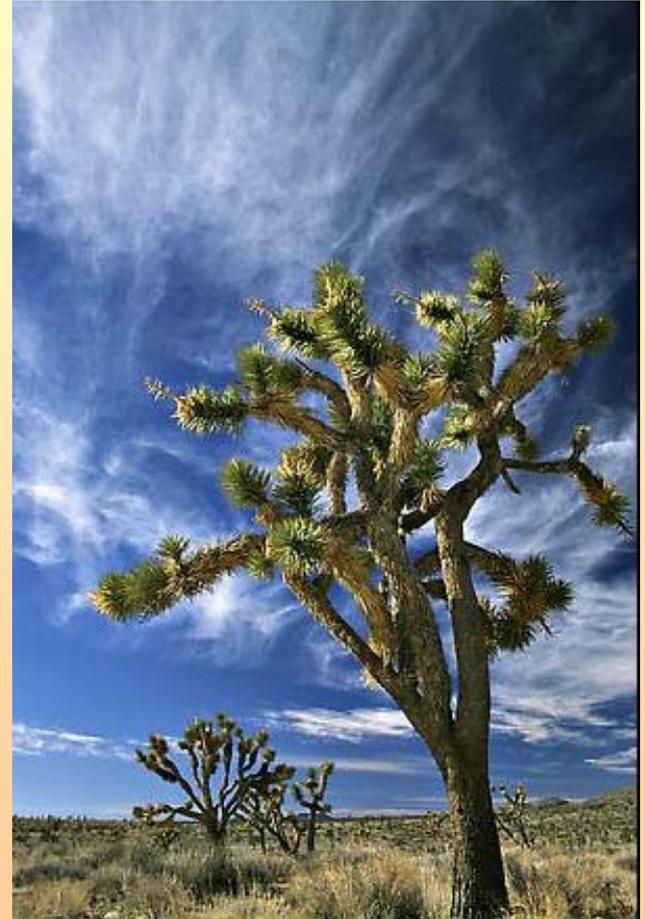


Mojave Desert Network Inventory & Monitoring Briefing

Desert Managers Group
March 24, 2011

NPS Natural Resource Challenge

- **Provides funding and new positions for natural resource stewardship to add to NPS visitor services capability**
- **Learn what is in parks (inventories), and monitor the vital signs of natural systems**
- **Engage the scientific community and the public, and facilitate their inquiries**
- **Share the information widely**



The I&M Program: What it is



Long-term ecological program designed to:

Routinely collect, manage, analyze, and report data on the condition or “health” of a modest set of natural resources.

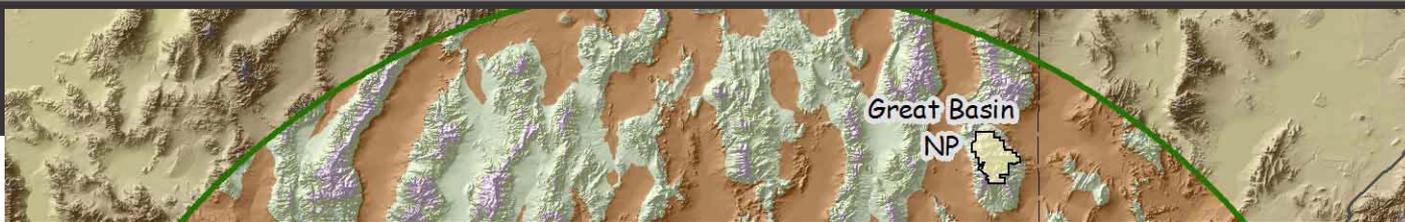
Provide some local scientific expertise to all 270+ parks through the use of shared positions.

Maximize the use and relevance of the data for managing parks, and gain efficiencies through collaboration, cost-sharing across NPS programs and with other agencies through a flexible but coordinated approach.

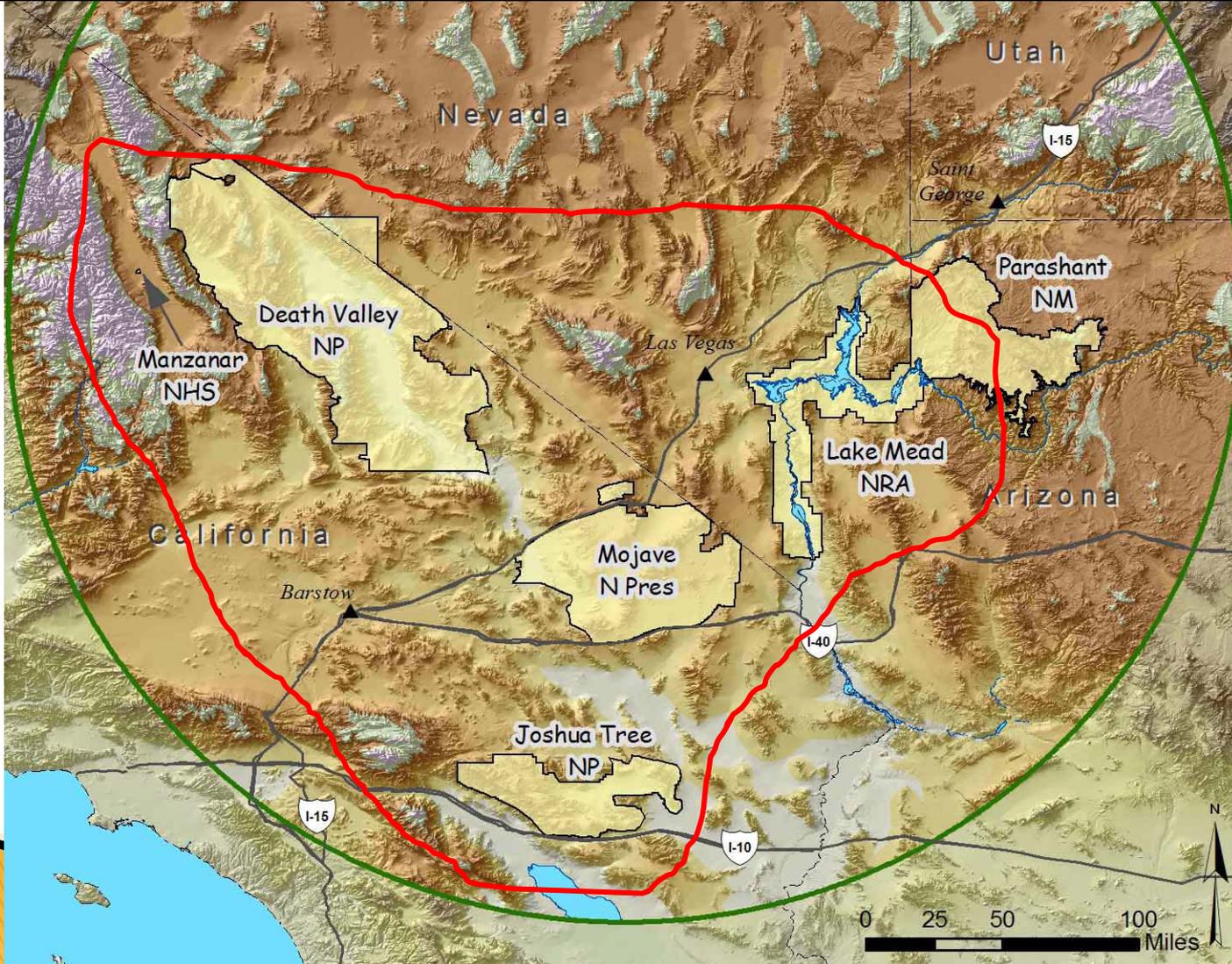
Make data and information more available and useful by promoting good data management/analysis/reporting practices.

NPS Network Concept





7 of 8 Mojave Desert Network Parks are located in Mojave Desert





PWR
I & M
Penny
Latham

GRBA

PARA

DEVA

LAKE

MOJA

MANZ

JOTR

MOJN
I & M
Program
Manager
Nita Tallent-Halsell

Data Management Team

Database
Developer
(vacant)

Data
Manager
Bob Truitt

GIS
Specialist
Dana
Robinson

Ecologist
Jean Pan

Veg
Mapping
Coordinator
Jeanne E Taylor

Admin
Assistant
Jenny Matsumoto
Three Rivers,
CA/SIEN

MOJN I&M
Organizational Chart and Staff
(3/21/11)





National Park Service

Mojave Desert Network

MOJN Protocols (10)

(orange = phase I, yellow = phase 2)

- Streams and Lakes
- Carbonate Aquifer and Valley Fill Aquifer (CVFA)
- Integrated Upland
- Invasive Plants
- Riparian Vegetation
- Air Quality
- Weather & Climate
- Fire and Fuels
- Landscape Dynamics
- Riparian Birds
- GRBA
- All except MANZ
- All
- All
- All except MANZ
- All
- All
- All
- All
- All except MANZ



Water Related Protocols
Geoff Moret
Univ. Idaho
Boulder City, NV

Streams/
Lakes

CVFA

Aridland
Springs

Weather and Climate
Vacant

Vegetation Related Protocols
Jean Pan

Integrated
Jean Pan

Riparian
Veg
Wendy
Trowbridge
UNR, Reno, NV

Soils
Debbie Soukup
UNLV, Las Vegas,
NV

Invasive
Plants S&T
Donovan Craig,
UNLV, Las Vegas,
NV

Invasive
Plants
Early Detection
Donovan Craig,
UNLV, Las Vegas,
NV



National Park Service
Mojave Desert Network

Carbonate Aquifers & Valley-Filled Aquifer Springs

- Target Populations:
 - All springs where regional carbonate aquifer springs (RCA) discharge
 - All valley-fill springs (VFS)
 - Sample of mountain-front springs (MFS)
- Objectives:
 - Determine discharge rates in all RCA & VFS
 - Determine length of dry period and date of onset inferred from temperature records in probabilistic sample of mountain-front springs



National Park Service
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Integrated Upland Vegetation and Soils

- Target populations:
 - Creosote/bursage (LAKE)
 - Creosote/mixed desert shrub transition (DEVA)
 - Joshua tree/blackbrush (JOTR, MOJA)
 - Pinion-juniper-sagebrush (PARA)
 - Rabbitbrush transition zone (MANZ)



Invasive Species

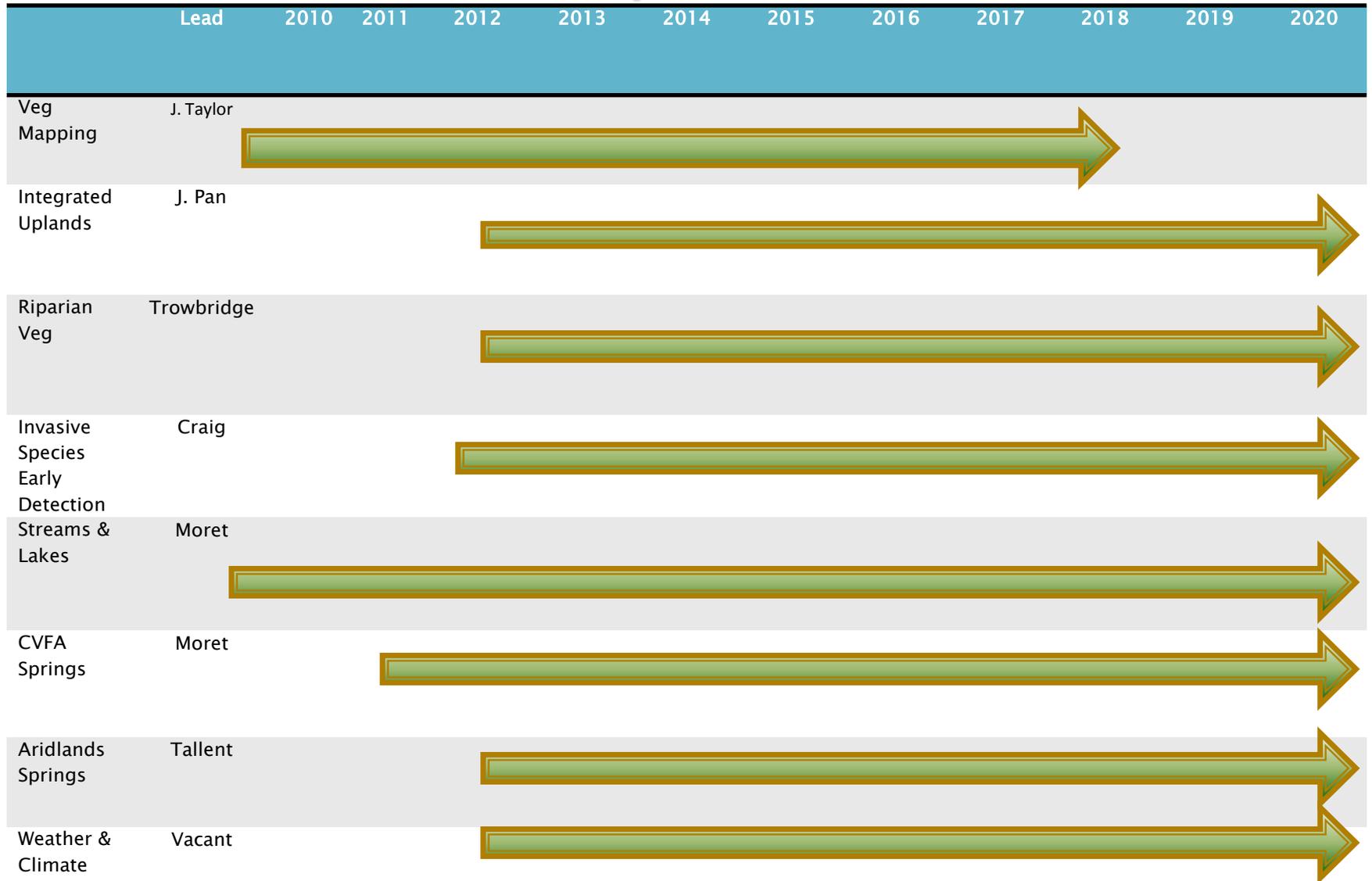
- Early detection protocol to be implemented by parks which can be effectively coordinated with their effectiveness monitoring
- Status and trends protocol:
 - Integrated with Upland and Riparian Vegetation Change
 - May have a predictive modeling component for other park habitats



Weather and Climate

- Protocol is in developing
- Currently recruiting Protocol Lead
- RAWS climate stations to complete gaps identified in WRCC climate inventories.

MOJN I&M Field Implementation Timeline



MOJN I&M Data Management

National Park Service



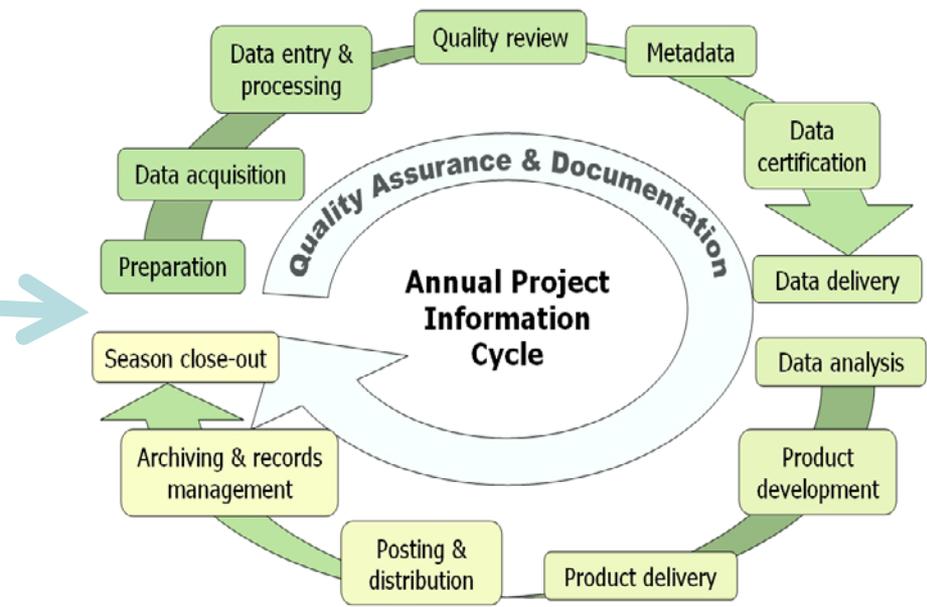
Mojave Inventory and Monitoring Network

Data and Information Management Plan



Mojave I&M Network

Version: 1.0
 Status: Draft
 Revision Date: April 11, 2008
 Author: Robert E. Trull
 Abstract: This document describes the general framework for managing all data and information within the Mojave Network I&M Program.
 Suggested Citation: Mojave Network. 2008. Data and Information Management Plan for the Mojave Network, Mojave Inventory and Monitoring Network – National Park Service, Boulder City, Nevada. [http://science.nature.nps.gov/im/units/mojn/index.cfm]. Boulder City, Nevada. 47 pp. plus appendices.
 The current version can be found at: http://science.nature.nps.gov/im/units/MOJN/di/iamgrm/di/iamgrm_plan.cfm



Mojave Desert Network I&M – NPS





Objectives / Responsibilities of MOJN I&M Database Developer

- ❖ Coordination with all protocol leads
- ❖ Protocol support
 - Technical writing
 - Protocol Narrative and SOPs
 - Information Workflow
 - Develop databases
 - Mobile Data Collection
 - Facilitate data sharing
 - QA/QC and data integrity
- ❖ Develop long-term management plans