Overview

- GIS Overview
- The Internet Map Service (IMS)
- Basic Analysis and Cartography
- Accessing the Geodatabase
- Assessing Data Quality
GIS Overview: What is GIS?

- A Geographic Information System (GIS) is a system of computer software, hardware, data and personnel to help manipulate, analyze and present information tied to a spatial location.
- MLPA Geographic Information System
  - Spatial database ("geodatabase")
  - Web based mapping and analysis software
  - Server and desktop computer systems
  - The GIS Team
GIS Overview: Why have a GIS?
GIS Overview: Data Types

Vector (points, lines, polygons)
- cities, rivers, habitat boundaries

Raster (grids)
- aerial photos, nautical charts
GIS Overview: Resolution & Scale

- Scale is the ratio of map distance to real world distance.
- Data resolution is an important variable to understand when interpreting information at various scales.
  - Lower resolution data are appropriate for interpretation only at small scales (less info per unit area = broad generalization)
  - Higher resolution data may be used at larger scales (more info per unit area = fine details)
GIS Overview: What's in a layer?

Layer Table

Metadata
Source
Use
Quality
Description
Geodatabase: What’s in there?

- Base
- Bathymetric
- Biological
- Cultural
- Consumptive
- Habitat
- Management
- MPAs
- Nautical Charts
- Physical
MLPA GIS: How to get there

http://marinemap.org/mlpa

Links to:
- Internet Map Service (IMS)
- Metadata Server
- Doris (decision support tool)

For expert GIS users:
- Instructions for connecting via ArcGIS
- Database download
Standard Web Browsers

- Internet Explorer
- Mozilla (Firefox)
- Safari
Metadata Explorer: Demonstration

Standard web browsers
- Internet Explorer *

Searching by keyword

Browse MLPA folders
For Expert GIS Users: ArcCatalog 9.2

URL of Server is http://marinemap.org, services are metadata and mlpa_feature

You must have ArcGIS 9.2 (and patience)
GIS Team

Staff are available to help you with your data and GIS analysis needs:

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You should now know how to:

– Visualize and query the MLPA geodatabase
– Access and search the MLPA Metadata Server
– Create simple maps
– Use metadata to assess data quality

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