



U.S. Fish and Wildlife Service

Meeting Data Quality Requirements

Wetland and Deepwater Mapping

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Background

- Historic NWI process...

7 step process – Field work, Photointerpretation, Review of existing Information, QC, Draft maps, Interagency review, Final maps, (Digitizing)

A service support contractor was responsible for all map production.

- 2002 Strategy and newer technologies eliminate or redefine these steps...

Changing Roles

- Regions have lead for data quality and integrity...
- No longer single primary contractor that requires oversight
- More cost effective and efficient
- Contractually correct (cooperators)
- Some 'National' QC functions covered elsewhere

Important Concepts

- Changes require standards be clearly defined
- Standards are all about Quality
- Data quality requirements determine process
- Must achieve Efficiency and Effectiveness

Why National Standards?

DOI Data Quality Requirements

FWS Data Quality Requirements

FWS Science Excellence Initiative

FWS Data Standards – Wetlands

PART Review (2005)

Data Quality Requirements

Quality Control Pyramid

Management

Database Oversight

Automated Verification Routines

Review(s) by Technical Specialists

Technical Reviews

- Regional Responsibility
- Regions have Direct Link to Cooperators:
 - Responsible for project specific conventions, operations, and timing
 - Coordinate field reconnaissance
 - Primary oversight for ecological integrity and quality of information
 - Wetlands and Deepwater
 - Riparian
 - HGM

Changing Roles

- Historic QC functions and how they are addressed...

Automated Verification

- Verification Tools (Version 2.0.6)
 - Verification done at all 3 tiers of QC
Data collector – Region – Final inspection
 - Data must pass Service's verification
 - Cartography and topology
 - Classification
 - Some logic checking

Database Oversight

- Responsibilities - Wetlands MGD Manager
 - Data integrity (in and out)
 - Documentation (metadata)
 - Status
 - External project area edge matching
 - Data uniformity and consistency

Management Oversight

● Data Steward Responsibilities

- Approval of all information distributed to public
- Data Quality Requirements and Standards
- Dispute resolution
- Coordination

Process Change

- Detail is not the same as Quality