DATA COLLECTION GUIDANCE:
Standardizing the Way the Navy Collects Geospatial Information

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• Enterprise GIS Program

• 9 Navy Regions Worldwide

• ~75 People

• 1000 Distinct Properties

• Common Mission
DATA COLLECTION GUIDE (DCG) BACKGROUND

- How does a distributed group standardize data collection?
- What resources are already available?
- How do we achieve buy-in?
- How do we evolve with mission needs and system changes?
This Data Collection Guide (DCG) defines a recommended standard for geospatial data collection and extraction methodology for the below data layer implemented under the United States Navy GeoReadiness Program. The DCG supersedes the Guidelines for Installation Mapping and GeoSpatial Data document.

**Data Layer Details:**

<table>
<thead>
<tr>
<th>Layer Name</th>
<th>Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navy Data Model 3.02 Description:</td>
<td>A roofed, floored and walled structure that is completely enclosed. Source: RPIM, v2.0, extracted 4/1/2008.</td>
</tr>
<tr>
<td>Geometry Type:</td>
<td>Polygon</td>
</tr>
<tr>
<td>Feature Dataset:</td>
<td>Common</td>
</tr>
<tr>
<td>Feature Crosswalk – Navy Pre-3.0 Feature Class:</td>
<td>carport_area, shed_area, structure_existing_area (STR_STAT_D) =&gt; DEMOLISHED-Structure that has been demolished)</td>
</tr>
<tr>
<td>Linked Systems/Tables/Databases:</td>
<td>INFADS, Conservation Database, Historic District</td>
</tr>
<tr>
<td>Navy Data Model Version:</td>
<td>3.02</td>
</tr>
</tbody>
</table>
DATA COLLECTION GUIDE (DCG): PROJECT PHASES

- Data Collection Guidance (DCG)
  - One chapter for each NDM Data Layer
  - Initial Review Phase
  - Annual Update

- Web-Enabled User Review & Feedback Tool
  - Chapter Review Dashboard
  - Comments Dashboard
  - Chapter Details page
  - Automated Notification System
DATA COLLECTION GUIDE: CHAPTER SECTIONS

• 11 Sections per Chapter
  • Feature Definition
  • Feature Roles and Responsibilities
  • Temporal
  • Completeness
  • External Authoritative Database of Record
  • Acceptable Data Sources
  • Spatial Representation
  • Positional Accuracy
  • Attribution
  • Metadata Completion
  • Data Quality Evaluation Measures

• Aligns with other DoD Service User Guides/Quality Assurance Manuals & Metrics Assessments (US Army & Marine Corps)
# 7.4.1 Inclusions

All Recreational Areas shall be contained in this feature class. Several examples are listed below, but this is not an all-inclusive list. Questions regarding inclusions should be referred to the Regional GRC.

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>DESCRIPTION</th>
<th>EXAMPLES</th>
<th>EXAMPLE IMAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseball Field/Softball Field</td>
<td>Designated outdoor area pertaining to baseball/softball fields. Corresponds to INFADS PLAYING FIELDS (750-20).</td>
<td>NAS Jacksonville baseball field.</td>
<td><img src="image1.png" alt="" /></td>
</tr>
<tr>
<td>Basketball Court</td>
<td>Designated outdoor area pertaining to Outdoor Basketball Court. Corresponds to INFADS OUTDOOR PLAYING COURTS (750-10).</td>
<td>NAS Key West basketball court in housing area.</td>
<td><img src="image2.png" alt="" /></td>
</tr>
<tr>
<td>Circuit Training</td>
<td>Designated outdoor area pertaining to circuit training.</td>
<td>Areas on an installation that are specified for circuit training.</td>
<td><img src="image3.png" alt="" /></td>
</tr>
</tbody>
</table>

# 7.4.2 Exclusions

The following examples may be incorrectly placed in the RecreationArea layer. It should be noted that this is not an all-inclusive list and questions regarding exclusions should be referred to the Regional GRC.

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>DESCRIPTION</th>
<th>EXAMPLES</th>
<th>EXAMPLE IMAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recreational Pavilions</td>
<td>An outdoor structure often used for amusement or shelter.</td>
<td>This would be added to Structure.</td>
<td><img src="image4.png" alt="" /></td>
</tr>
<tr>
<td>Driving Range</td>
<td>An outgranted location used for golf driving practice.</td>
<td>This would be added to GolfCourseFeature.</td>
<td><img src="image5.png" alt="" /></td>
</tr>
<tr>
<td>Golf Course</td>
<td>An outgranted location used for playing golf.</td>
<td>This would be added to GolfCourse.</td>
<td><img src="image6.png" alt="" /></td>
</tr>
</tbody>
</table>
WEB-ENABLED USER REVIEW & FEEDBACK TOOL
USER NOTIFICATIONS

• The 3 stage automated workflow
  • User email alerts at each stage of the workflow
    • Draft Document has been posted
    • Feedback period is closed for review
    • Latest Version has been Posted
  • Administrative email alerts when comments have been posted
DATA COLLECTION GUIDE: PROJECT FUTURE

- **Site Visits with Stakeholders**
  - Capture and evaluate current data collection practices, common data problems, and current inconsistencies to improve the DCG

- **Maintain compliance as data model changes**
  - As new versions of the NDM are developed, the DCG will be updated

- **Develop future chapters as needed**
  - A chapter will be developed for each data layer in the NDM

- **Document metrics and QA/QC process**
  - Incorporate rules to ensure data quality and define metrics

- **Align with other initiatives as they present themselves**
  - Data Catalogs & GRX Viewer facelift
  - Standard Symbology
Thank You!

Q & A