<table>
<thead>
<tr>
<th>Field Name</th>
<th>Source Table</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>obs_id</td>
<td>tblObservations</td>
<td>AutoNumber</td>
<td>Primary Key - Autonumber</td>
</tr>
<tr>
<td>survey_id</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Primary Key; unique alphanumeric identifier consisting of 4-letter NWR code, and 6-digit MM/YYYY date</td>
</tr>
<tr>
<td>plot_id</td>
<td>tblObservations</td>
<td>Number</td>
<td>Unique plot identifier; AutoNumber/Primary Key in the tblPlots table</td>
</tr>
<tr>
<td>plot_name</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Designated plot name</td>
</tr>
<tr>
<td>plot_area</td>
<td>tblObservations</td>
<td>Number</td>
<td>Plot area in sq km; most relevant for NPPSdb-compatible transect-based surveys</td>
</tr>
<tr>
<td>area_desc</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Description of the plot area</td>
</tr>
<tr>
<td>count_num</td>
<td>tblObservations</td>
<td>Number</td>
<td>Index number for the number of counts that were performed for the selected plot</td>
</tr>
<tr>
<td>obs_name</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Initials of the observer who performed the count</td>
</tr>
<tr>
<td>obs_species</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Four-letter code representing the species surveyed</td>
</tr>
<tr>
<td>entity_type</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>The development stage of the species surveyed: Adult, Chick, Fledgling, Nest, Immature</td>
</tr>
<tr>
<td>obs_time</td>
<td>tblObservations</td>
<td>Date/Time</td>
<td>Time the count was performed (24:00)</td>
</tr>
<tr>
<td>obs_count</td>
<td>tblObservations</td>
<td>Number</td>
<td>The number of birds or nests (or other entity type) counted in the plot</td>
</tr>
<tr>
<td>egg_count</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Egg count, or notes on egg presence, where relevant</td>
</tr>
<tr>
<td>vis</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Generalized visibility condition (selection) during observation: Excellent, Good, Fair, Poor</td>
</tr>
<tr>
<td>seacnd</td>
<td>tblObservations</td>
<td>Number</td>
<td>Sea surface conditions at the time of the survey (selection): 1 = calm, 2 = light chop, 3 = moderate to heavy chop</td>
</tr>
<tr>
<td>winddir</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Wind direction (selection: N, S, E, W, NE, NW, SE, SW, VRB (variable))</td>
</tr>
<tr>
<td>windspd</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Wind speed (knots)</td>
</tr>
<tr>
<td>genweather</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>General notes on weather not captured by sea conditions or wind speed/direction</td>
</tr>
<tr>
<td>obs_notes</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>General notes about the observation</td>
</tr>
<tr>
<td>db_notes</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Notes field for the person aggregating data</td>
</tr>
<tr>
<td>exclude</td>
<td>tblObservations</td>
<td>Yes/No</td>
<td>Exclude plot? (Appears in tblObservations as &quot;exclude&quot;)</td>
</tr>
<tr>
<td>exclude_r</td>
<td>tblObservations</td>
<td>ShortText</td>
<td>Reason for excluding plot (Appears in tblObservations as &quot;exclude_r&quot;)</td>
</tr>
<tr>
<td>refuge_unit</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Refuge unit, where specified; otherwise, full refuge name</td>
</tr>
<tr>
<td>site</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Designated site or island surveyed</td>
</tr>
<tr>
<td>survey_protocol</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Protocol type (selection): Plot or Circumnavigation</td>
</tr>
<tr>
<td>survey_platform</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Platform from which observations were made (selection): Land, Boat, Aerial</td>
</tr>
<tr>
<td>survey_type</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Basis of record for the observations (selection): Visual, Handheld camera, Fixed camera</td>
</tr>
<tr>
<td>survey_date</td>
<td>tblSurveys</td>
<td>Date/Time</td>
<td>Date of the survey</td>
</tr>
<tr>
<td>start_time</td>
<td>tblSurveys</td>
<td>Date/Time</td>
<td>Time the survey started</td>
</tr>
<tr>
<td>stop_time</td>
<td>tblSurveys</td>
<td>Date/Time</td>
<td>Time the survey ended</td>
</tr>
<tr>
<td>replicate</td>
<td>tblSurveys</td>
<td>Number</td>
<td>Replicate number of the survey, where relevant</td>
</tr>
<tr>
<td>survey_notes</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>General notes about the survey</td>
</tr>
<tr>
<td>source</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Name of the source from which the record is derived</td>
</tr>
<tr>
<td>exclude</td>
<td>tblSurveys</td>
<td>Yes/No</td>
<td>Exclude plot? (Appears in tblSurveys as &quot;exclude&quot;)</td>
</tr>
<tr>
<td>exclude_r</td>
<td>tblSurveys</td>
<td>ShortText</td>
<td>Reason for excluding plot (Appears in tblSurveys as &quot;exclude_r&quot;)</td>
</tr>
</tbody>
</table>
### Key to Database Fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Source Table</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>plot_type</td>
<td>tluPlots</td>
<td>ShortText</td>
<td>Type of plot (selection): Point or Transect</td>
</tr>
<tr>
<td>plot_group</td>
<td>tluPlots</td>
<td>ShortText</td>
<td>Plot grouping</td>
</tr>
<tr>
<td>location_index</td>
<td>tluPlots</td>
<td>ShortText</td>
<td>Internal (office or refuge) reference code for given site or plot</td>
</tr>
<tr>
<td>Latitude</td>
<td>tluPlots</td>
<td>Number</td>
<td>Latitude (DD) of point plot, or beginning of transect</td>
</tr>
<tr>
<td>Longitude</td>
<td>tluPlots</td>
<td>Number</td>
<td>Longitude (DD) of point plot, or beginning of transect</td>
</tr>
<tr>
<td>End_Lat</td>
<td>tluPlots</td>
<td>Number</td>
<td>Latitude (DD) of end of transect, when relevant</td>
</tr>
<tr>
<td>End_Long</td>
<td>tluPlots</td>
<td>Number</td>
<td>Longitude (DD) of end of transect, when relevant</td>
</tr>
<tr>
<td>transect_length</td>
<td>tluPlots</td>
<td>Number</td>
<td>Length (km) of transect</td>
</tr>
<tr>
<td>historic_plot_name</td>
<td>tluPlots</td>
<td>ShortText</td>
<td>Prior name of plot (e.g., if split into multiple plots or renamed)</td>
</tr>
<tr>
<td>required/index</td>
<td>tluPlots</td>
<td>Yes/No</td>
<td>Required or index plot? (Currently only indicated in the Becharof NWR data)</td>
</tr>
<tr>
<td>est_year</td>
<td>tluPlots</td>
<td>ShortText</td>
<td>Year the plot was established, if known</td>
</tr>
<tr>
<td>COMMONNAME</td>
<td>tluSpp</td>
<td>ShortText</td>
<td>common species name, as described by NPPSD taxonomy</td>
</tr>
<tr>
<td>SCINAME</td>
<td>tluSpp</td>
<td>ShortText</td>
<td>scientific species name, as described by NPPSD taxonomy</td>
</tr>
<tr>
<td>TSN</td>
<td>tluSpp</td>
<td>Number</td>
<td>Integrated Taxonomic Information System (ITIS) (2013) Taxonomic Serial Number</td>
</tr>
<tr>
<td>Source</td>
<td>tluSpp</td>
<td>ShortText</td>
<td>source of species code, including AKM, BirdPop, and NPPSD</td>
</tr>
</tbody>
</table>