Summary of research on Pink-footed shearwaters (*Puffinus creatopus*), Juan Fernández petrels (*Pterodroma externa*), Stejneger’s petrels (*Pterodroma longirostris*), and Kermadec petrels (*Pterodroma neglecta*)

*the following abbreviations will be used below:

PFSH = *Puffinus creatopus*  
JFPE = *Pterodroma externa*  
STJE = *Pterodroma longirostris*  
KEPE = *Pterodroma neglecta*

*data presented below are for the following locations in 2003 unless otherwise stated:

PFSH, Isla Santa Clara  
JFPE, Isla Alejandro Selkirk  
STPE, Isla Alejandro Selkirk  
KEPE, Morro Juanango

*data are means ±1SD

Population estimates:

PFSH: 43.3% (±14.7) estimated burrow occupancy  
2,544 active burrows, or breeding pairs on Santa Clara (of total 5,876 burrows estimated on Santa Clara)  
6,064 burrows estimated on Robinson Crusoe in large colonies at Vaquería, Puerto Francés, and Piedra Agujereada (not intended as an island estimate)

JFPE, STPE: 0.52 burrows/m² nest densities in study plots at Tres Torres, all JFPE nests  
0.99 burrows/m² nest densities in plots at Cordon Inocentes Bajos, all JFPE nests  
75% (±8.5) estimated burrow occupancy of JFPE burrows within plots  
84% estimated burrow occupancy of STPE burrows within plots

KEPE: 64% estimated nest occupancy

Breeding biology:

<table>
<thead>
<tr>
<th></th>
<th>PFSH</th>
<th>JFPE</th>
<th>STPE</th>
<th>KEPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chick hatching rate</td>
<td>78%</td>
<td>83%</td>
<td>89%</td>
<td>75%</td>
</tr>
<tr>
<td>Chick survival rate through mid March</td>
<td>88%</td>
<td>76%</td>
<td>88%</td>
<td>71%</td>
</tr>
<tr>
<td>Overall breeding success rate to mid March</td>
<td>69%</td>
<td>63%</td>
<td>78%</td>
<td>54%</td>
</tr>
</tbody>
</table>

Foraging ecology:

PFSH: (data collected via satellite transmitters)  
2003: 2-10 day minimum foraging trip length, with maximum duration as long as 18 days  
479km (±147SD) mean linear distance of foraging trips from Isla Santa Clara  
2002: 2-4 day minimum foraging trip length, with maximum duration of 4 days  
175km (±78SD) mean linear distance of foraging trips from Isla Santa Clara

Competition and Predation:

PFSH: 18% (±6) burrows on Santa Clara had eggs ejected  
2% (±2) burrows on Robinson Crusoe had eggs ejected  
0 dead adults, 0 dead chicks found on Santa Clara within predation plots  
36 dead adults, 92 dead chicks found on Robinson Crusoe within predation plots  
0% breeding adults failed potentially due to predation on Santa Clara  
12% (±9) breeding adults failed potentially due to predation on Robinson Crusoe

JFPE, STPE: 37 ejected eggs from JFPE nests found in predation surveys  
20 JFPE dead adults, 2 JFPE dead chicks found in predation surveys (85%, 100% showing evidence of cat predation, respectively)  
9 STPE dead adults, 0 STPE dead chicks found in predation surveys (100% showing evidence of cat predation)  
2-3% breeding adults failed potentially due to predation

Measurements of Focal Species:

<table>
<thead>
<tr>
<th></th>
<th>Adult mass (g)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pink-footed shearwater</td>
<td>765 (±67)</td>
<td>72.7 (±3.0)</td>
<td>48.3 (±0.6)</td>
</tr>
<tr>
<td>Juan Fernández petrel</td>
<td>496 (±49)</td>
<td>67.4 (±2.7)</td>
<td>47.8 (±1.4)</td>
</tr>
<tr>
<td>Stejneger’s petrel</td>
<td>161 (±15)</td>
<td>51.1 (±0.9)</td>
<td>37.1 (±1.4)</td>
</tr>
<tr>
<td>Kermadec petrel</td>
<td>(no data)</td>
<td>63.9 (±1.0)</td>
<td>46.8 (±1.0)</td>
</tr>
</tbody>
</table>