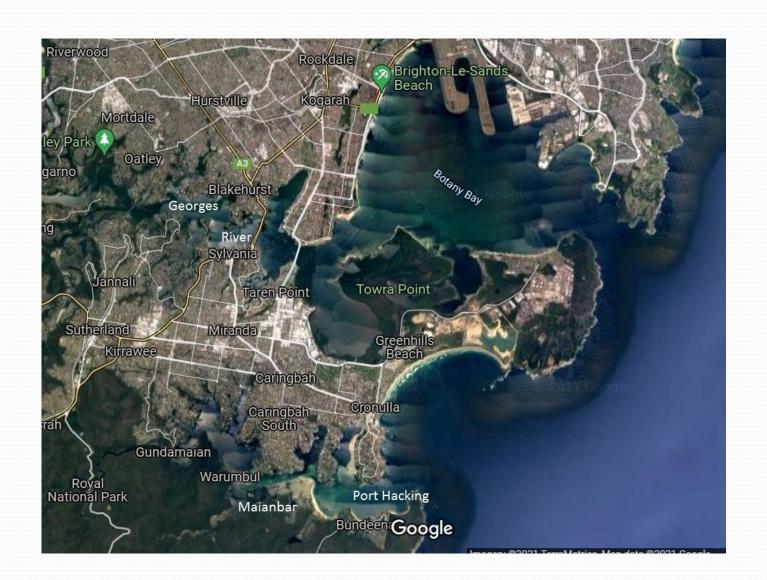
Shorebirds of Botany Bay and Port Hacking estuaries



Shorebird feeding habitat – intertidal zone between high and low water mark – exposed at low tide

Sandy or muddy intertidal flat

Intertidal rock platform





Shorebird lifestyles

Migratory



Eastern Curlew, Bar-tailed Godwit, Grey-tailed Tattler, Towra Point.

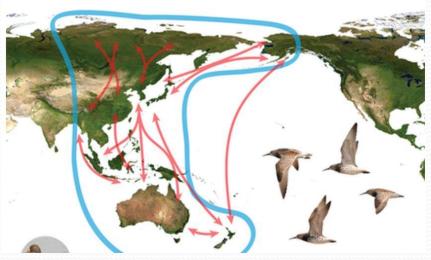
Resident



Pied Oystercatcher, Towra Spit Island, Towra Point.

East Asian Australasian Flywaya pathway in the sky across the globe

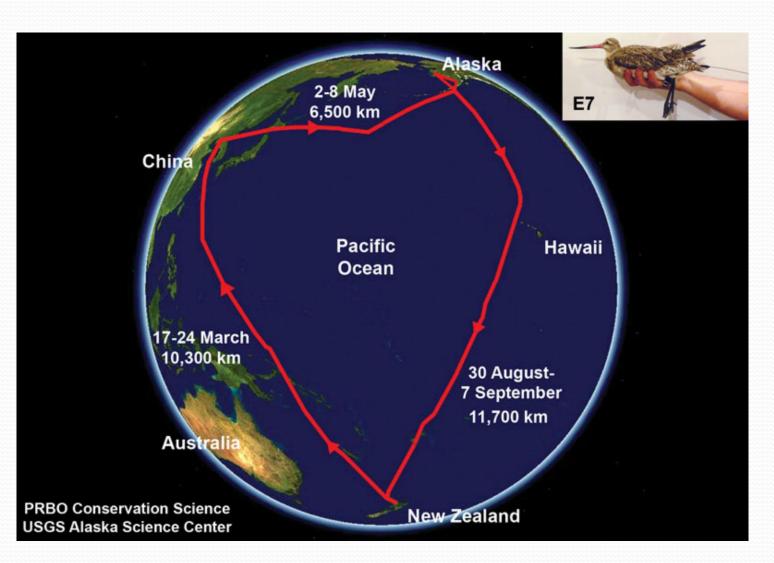






Bar-tailed Godwit, Towra Spit Island, Towra Point, global migrants.

The journey of E7 – the Bar-tailed Godwit that set a new world record for non-stop flight



Botany Bay and Port Hacking – why are they important to shorebirds – migratory species





- 18 species of migratory shorebirds are regularly found in Botany Bay and Port Hacking areas due to the diversity of habitat and rich invertebrate foods.
- Migratory species spend more than 6 months a year here preparing for their annual migration to their breeding grounds in the tundras, moorlands and coasts of the high latitudes of Siberia and Alaskan Arctic in the northern hemisphere.
- Their time in Australia is is a critical part of the life cycle, recovering body condition, moulting feathers and building up fat reserves for migration.
- Botany Bay and Port Hacking together support nationally significant populations of Critically Endangered Eastern Curlew, Endangered Pied Oystercatcher and Double-banded Ployer.
- The Endangered Little Tern, a migrant from Japan, regularly breeds on Towra Spit Island at Towra Point.
- The small Double-banded Plover breeds in New Zealand and migrates to Australia in winter.

Migratory species

Eastern Curlew (100-160)
Bar-tailed Godwit (170-200)
Whimbrel (50-70)
Grey-tailed Tattler (40-70)
Red-necked Stint (100-180)
Sharp-tailed Sandpiper (2-25)
Pacific Golden Plover (20-60)
Ruddy Turnstone (7-25)
Terek Sandpiper (1-2)
Red Knot (2-20)
Great Knot (1)
Common Greenshank (2-4)

Common Sandpiper (1)

Double-banded Plover (15-26)

Sanderling (1-2)

Little Tern (30-100)

Common Tern (3-70) White-fronted Tern (1-3)

Resident species

- Pied Oystercatcher (50-110)
 - Sooty Oystercatcher (10-16)

E

- Red-capped Plover (2-10)
- Black-fronted Dotterel (2-4)
- Masked Lapwing (2-10)
- Black-winged Stilt (2-20)
- Crested Tern (5-500)
- Caspian Tern (5-18)
- Silver Gull (50-350)
- Kelp Gull (1-8)

All migratory species are protected under the Commonwealth Environment Protection and Biodiversity Conservation Act (EPBC Act). Species shown in red are listed as threatened under the EPBC Act and / or NSW Biodiversity Conservation Act. CE-Critically Endangered, E-Endangered, Vulnerable

V

E

- migratory species – summer migrants



Eastern Curlew (Siberia)



Bar-tailed Godwit, male left, female right (Alaska).



Little Tern (eastern Asia)



Whimbrel (Siberia)



Grey-tailed Tattler, Taren Point (Siberian mountains).



Red Knot, Bar-tailed Godwit, (Alaska).

Shorebirds of Botany Bay and Port Hacking -migratory species – Boat Harbour rock platform

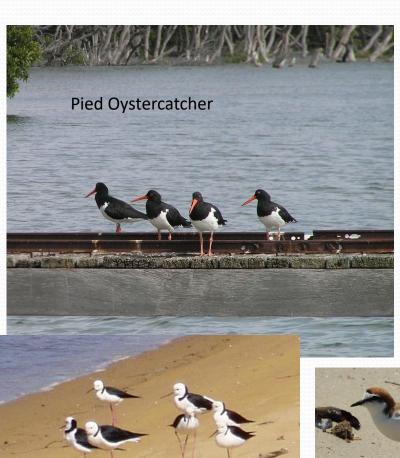


Ruddy Turnstone, Pacific Golden Plover, Red-necked Stint and Sanderling - summer migrants from the Siberian Arctic.



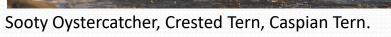
Double-banded Plover - winter migrant from New Zealand.

- resident species

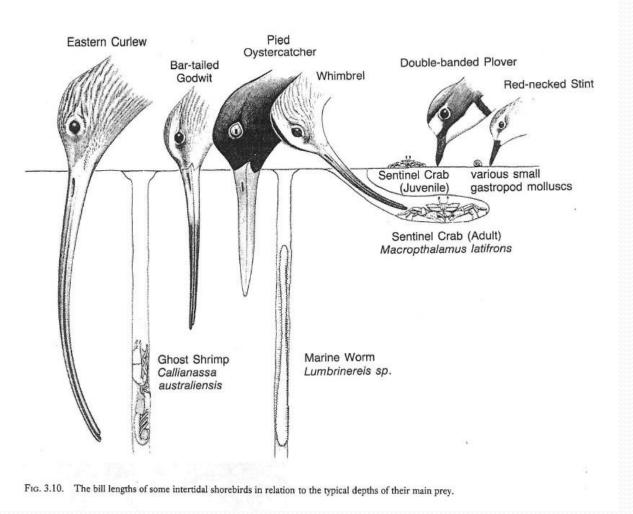




Red-capped Plover



Shorebirds of Botany Bay and Port Hacking – feeding strategies



From Dann, P. (1987) The feeding behaviour and ecology of shorebirds. Ch 3 in "Shorebirds in Australia", B. A. Lane (ed).

-feeding strategies













Soldier crabs Mictyris longicarpus



Bar-tailed Godwit with Ghost Nipper



Shorebirds of Botany Bay and Port Hacking -critical high tide roosting habitat- resting sites



- critical nesting sites-Towra Spit Island, Towra Point

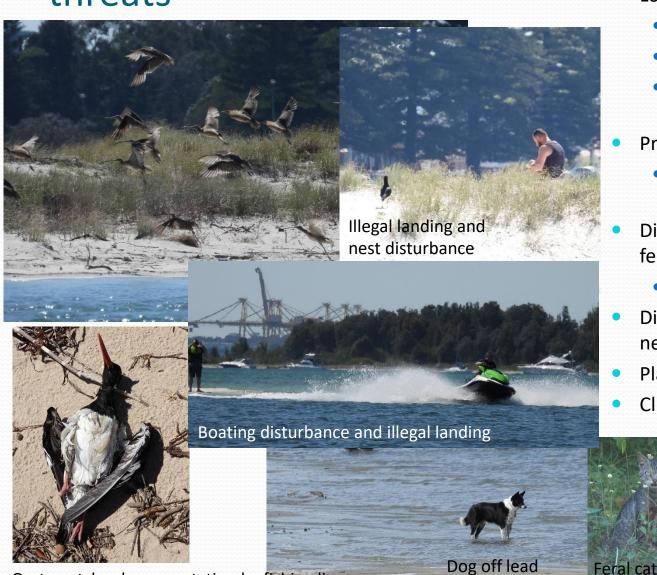






Nesting Pied Oystercatcher and egg, Towra Spit island

Shorebirds of Botany Bay and Port Hacking threats Loss of habitat



Oystercatcher leg amputation by fishing line

- - **Roosting sites**
 - Feeding areas
 - Migration stop-overs, Yellow Sea, China/Korea
- Predation-roosting/feeding sites
 - Feral Fox, Feral Cat, domestic cats and dogs
- Disturbance at roosting and feeding sites
 - Dogs, people, boats, drones
- Disturbance and destruction of nesting sites

Feral fox

- Plastic pollution –fishing line
- Climate change

Shorebirds of Botany Bay and Port Hacking - Conservation – making space for shorebirds

