



Central Queensland Coal Project

Appendix 9h – Migratory Shorebird Counts in Broad Sound

Central Queensland Coal

CQC SEIS, Version 3

October 2020

Migratory shorebird counts in Broad Sound 2008 / 2009 – raw data

by Wetlands International and volunteers for Fitzroy Basin Association.

Survey leader and contact: Roger Jaensch

Table 1 2008 - 2009 Broad Sound migratory bird counts - raw data (source: Jaensch 2009) (bold numbers indicate nationally important numbers i.e. 0.1% of flyway estimate as provided in Hansen et.al 2016)

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number | Comments |
|-----------------------|---------|----------|---------|----------------|-----------------|--------------|-------------------------|------------|--|
| September 2008 | | | | | | | | | |
| Charon Point | 22.4008 | 149.8222 | 14/9/08 | 11:00 | 5.35 | 09:00-11:30 | Bar-tailed Godwit | 8 | |
| | | | | | | | Beach Stone-curlew | 1 | at roost on previous night's high tide; on Charon Point beach by day |
| | | | | | | | Eastern Curlew | 92 | observers on hill at shore reported curlews flying in (late) from direction of across Broad Sound to east. |
| | | | | | | | Grey-tailed Tattler | 1 | some roosting in outer mangroves |
| | | | | | | | sandplover sp. | 1 | flushed only, poor view |
| | | | | | | | Whimbrel | 1 | others probably roosting in mangroves |
| Bar Plain Beach | 22.3018 | 149.6233 | 15/9/08 | 11:30 | 5.55 | 09:15-12:30 | Bar-tailed Godwit | 70 | last 40 flew in at 1000 |
| | | | | | | | Eastern Curlew | 68 | 37 flew in between 1030 and 1055, well after all other birds had arrived. From SE or E |
| | | | | | | | Great Knot | 50 | |
| | | | | | | | Grey Plover | 3 | black 'armpits' |
| | | | | | | | Red Knot | 350 | traces of red on many bellies; most birds arrived at roost at 0925 |
| | | | | | | | Red-necked Stint | 370 | roosting inconspicuously in mangrove leaf strand at last night's HWM |
| | | | | | | | sandplover sp. | 10 | identity uncertain, seen briefly |
| | | | | | | | Whimbrel | 4 | |
| | | | | | | | Gull-billed Tern | 48 | |
| | | | | | | | Caspian Tern | 3 | |
| Oyster Creek | 22.2334 | 149.5702 | 16/9/08 | 12:00 | 5.69 | 11:20-11:50 | Bar-tailed Godwit | 2 | |
| | | | | | | | Curlew Sandpiper | 120 | |
| | | | | | | | Eastern Curlew | 17 | |
| | | | | | | | Red-necked Stint | 370 | |

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number | Comments |
|--|---------|----------|---------|----------------|-----------------|--------------|------------------------|-----------|--|
| | | | | | | | Terek Sandpiper | 10 | |
| | | | | | | | Whimbrel | 2 | |
| St Lawrence Creek north-shore saltmarsh | 22.2958 | 149.5598 | 16/9/08 | 12:00 | 5.69 | 11:00-11:05 | Bar-tailed Godwit | 1 | |
| | | | | | | | Eastern Curlew | 2 | |
| | | | | | | | Great Knot | 1 | |
| | | | | | | | Whimbrel | 8 | |
| Hoogly Point | 22.3529 | 149.6902 | 17/9/08 | 12:45 | 5.73 | 10:05-13:00 | Bar-tailed Godwit | 80 | in flock with knots |
| | | | | | | | Beach Stone-curlew | 2 | |
| | | | | | | | Common Greenshank | 14 | |
| | | | | | | | Curlew Sandpiper | 4 | |
| | | | | | | | Eastern Curlew | 50 | |
| | | | | | | | Great Knot | 30 | in flock with knots and godwits |
| | | | | | | | Grey Plover | 1 | |
| | | | | | | | Grey-tailed Tattler | 15 | in two outer Avicennia mangroves, partly hidden in tree |
| | | | | | | | Red Knot | 77 | in flock with knots and godwits |
| | | | | | | | Red-necked Stint | 170 | mainly on strand line along beach to east |
| | | | | | | | Sharp-tailed Sandpiper | 23 | in damp samphire (wetted on higher night tide last night) |
| | | | | | | | Terek Sandpiper | 10 | in two outer Avicennia mangroves, partly hidden in tree |
| | | | | | | | Whimbrel | 15 | roosting in mangroves |
| | | | | | | | Gull-billed Tern | 20 | |
| November 2008 | | | | | | | | | |
| Oyster Creek | 22.2334 | 149.5702 | 13/9/08 | 11:30 | 6.5 | 10:30-11:15 | Bar-tailed Godwit | 5 | |
| | | | | | | | Beach Stone-curlew | 2 | |
| | | | | | | | Curlew Sandpiper | 2 | |
| | | | | | | | Eastern Curlew | 25 | |
| | | | | | | | Greater Sand Plover | 100 | |
| | | | | | | | Lesser Sand Plover | 1 | |
| | | | | | | | Red-necked Stint | 375 | |
| | | | | | | | Sharp-tailed Sandpiper | 3 | |
| | | | | | | | Whimbrel | 2 | |

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number | Comments |
|--|---------|----------|---------|----------------|-----------------|--------------|-------------------------------|------------|---|
| St Lawrence Creek north-shore saltmarsh | 22.2958 | 149.5598 | 13/9/08 | 11:30 | 6.5 | 10:00-10:05 | Bar-tailed Godwit | 239 | |
| | | | | | | | Eastern Curlew | 4 | |
| | | | | | | | Great Knot | 5 | |
| Outer Mangrove of Bar Plain | 22.3180 | 149.6422 | 13/9/08 | 11:30 | 6.5 | 11:40-11:55 | Common Greenshank | 5 | |
| | | | | | | | Grey-tailed Tattler | 39 | |
| | | | | | | | Terek Sandpiper | 21 | |
| | | | | | | | Whimbrel | 10 | |
| Hoogly Point | 22.3529 | 149.6902 | 14/9/08 | 1215 | 6.5 | 0845-1145 | Gull-billed Tern | 5 | |
| | | | | | | | Bar-tailed Godwit | 149 | |
| | | | | | | | Beach Stone-curlew | 2 | |
| | | | | | | | Common Greenshank | 5 | |
| | | | | | | | Eastern Curlew | 83 | |
| | | | | | | | Great Knot | 35 | |
| | | | | | | | Greater Sand Plover | 2 | |
| | | | | | | | Grey Plover | 4 | |
| | | | | | | | Red Knot | 5 | |
| | | | | | | | Red-necked Stint | 802 | |
| | | | | | | | Sharp-tailed Sandpiper | 95 | |
| | | | | | | | Whimbrel | 56 | |
| | | | | | | | Gull-billed Tern | 75 | |
| Caspian Tern | 2 | | | | | | | | |
| February 2009 | | | | | | | | | |
| St Lawrence Creek north-shore saltmarsh | 22.2958 | 149.5598 | 07/2/09 | 10:10 | 6.4 | 08:17-08:30 | Bar-tailed Godwit | 155 | |
| | | | | | | | Eastern Curlew | 6 | |
| | | | | | | | Great Knot | 30 | |
| | | | | | | | Terek Sandpiper | 25 | |
| Bar Plain Beach | 22.3018 | 149.6233 | 07/2/09 | 10:10 | 6.4 | 08:55-09:45 | Whimbrel | 5 | |
| | | | | | | | Bar-tailed Godwit | 43 | 20 of these birds left towards Red Bluff before high tide |
| | | | | | | | Eastern Curlew | 13 | 16 other birds at minor sites upriver on the south shore |

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number | Comments |
|-------------------|---------|----------|---------|----------------|-----------------|--------------|--------------------|--------------|---|
| | | | | | | | Great Knot | 340 | 200 of these birds left towards Red Bluff before high tide |
| | | | | | | | Lesser Sand Plover | 240 | scanned carefully at reasonable distance |
| | | | | | | | Red-necked Stint | 110 | |
| | | | | | | | Whimbrel | 0 | 9 other birds at minor sites upriver on the south shore |
| Charon Point | 22.4008 | 149.8222 | 08/2/09 | 1050 | 6.7 | 1045-1345 | Bar-tailed Godwit | 70 | |
| | | | | | | | Eastern Curlew | 25 | |
| | | | | | | | Great Knot | 2,300 | two main mobs on saltflat; did not leave till after 1300 |
| | | | | | | | large shorebirds | 100 | dropped in to an unseen roost site in far south of mangroves associated with this saltflat; possibly Whimbrels and/or godwits |
| | | | | | | | Lesser Sand Plover | 60 | scanned carefully at reasonable distance |
| | | | | | | | Red Knot | 11 | seen at close range with scope, inside Great Knot mobs |
| | | | | | | | Whimbrel | 4 | |
| March 2009 | | | | | | | | | |
| Charon Point | 22.4008 | 149.8222 | 22/3/09 | 09:20 | 5.4 | 08:20-09:30 | Bar-tailed Godwit | 48 | |
| | | | | | | | Beach Stone-curlew | 1 | |
| | | | | | | | Eastern Curlew | 30 | |
| | | | | | | | Great Knot | 2,200 | possibly around 2500: several large flocks wheeling in flight low overhead and over the sea; arrived about 10 minutes after high tide but did not land at roost |
| | | | | | | | Whimbrel | 10 | |
| Hoogly Point | 22.3529 | 149.6902 | 23/3/09 | 10:00 | 5.7 | 08:15-10:30 | Eastern Curlew | 26 | |
| | | | | | | | Grey Plover | 2 | |
| | | | | | | | Lesser Sand Plover | 70 | |
| | | | | | | | Red-necked Stint | 60 | |
| | | | | | | | Whimbrel | 21 | |
| | | | | | | | Caspian Tern | 1 | |

Migratory shorebird counts in Broad Sound 2010 / 2017 – raw data

by volunteers for Birdlife Capricornia.

Table 2 2010 - 2017 Broad Sound migratory bird counts - raw data (source: Birdlife Capricornia 2017) (bold numbers indicate nationally important numbers i.e. 0.1% of flyway estimate as provided in Hansen et.al 2016)

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number |
|------------------|---------|----------|-----------|----------------|-----------------|--------------|------------------------|-------------|
| Charon Point | 22.4008 | 149.8222 | 4/9/2010 | 8:15 | 4.52 | 07:00-09:30 | Bar-tailed Godwit | 6 |
| | | | | | | | Beach Stone-curlew | 2 |
| | | | | | | | Eastern Curlew | 50 |
| | | | | | | | Grey-tailed Tattler | 60 |
| | | | | | | | Whimbrel | 15 |
| Charon Point | 22.4008 | 149.8222 | 24/9/2011 | 8:15 | 4.52 | 07:45-09:30 | Eastern Curlew | 60 |
| | | | | | | | Whimbrel | 10 |
| | | | | | | | Terek Sandpiper | 2 |
| Charon Point | 22.4008 | 149.8222 | 17/9/2012 | 11:03 | 5.86 | 09:30-11:30 | Eastern Curlew | 15 |
| | | | | | | | Whimbrel | 4 |
| | | | | | | | Lesser Sand Plover | 8 |
| Hoogly Point | 22.3578 | 149.6883 | 6/10/2013 | 12:40 | 5.89 | 10:00-13:00 | Bar-tailed Godwit | 130 |
| | | | | | | | Eastern Curlew | 505* |
| | | | | | | | Great Knot | 40 |
| | | | | | | | Whimbrel | 35 |
| | | | | | | | Red-necked Stint | 290 |
| | | | | | | | Greater Sand Plover | 50 |
| | | | | | | | Lesser Sand Plover | 20 |
| | | | | | | | Grey Plover | 3 |
| | | | | | | | Sharp-tailed Sandpiper | 1 |
| | | | | | | | Grey-tailed Tattler | 1 |
| Bar Plains Beach | 22.3018 | 149.6261 | 6/10/2013 | 12:15 | 5.94 | 10:30-12:00 | Bar-tailed Godwit | 8 |
| | | | | | | | Whimbrel | 1 |
| | | | | | | | Eastern Curlew | 94 |
| | | | | | | | Great Knot | 4 |
| | | | | | | | Red Knot | 41 |
| | | | | | | | Red-necked Stint | 280 |
| | | | | | | | Sharp-tailed Sandpiper | 75 |
| Hoogly Point | 22.3578 | 149.6883 | 6/10/2014 | 10:02 | 5.89 | 09:00-11:00 | Bar-tailed Godwit | 25 |
| | | | | | | | Black-tailed Godwit | 1 |
| | | | | | | | Eastern Curlew | 251 |

| Roost name | Lat | Long | Date | High tide time | Tide height (m) | Count period | Species | Number |
|-------------------------|---------|----------|------------|----------------|-----------------|--------------|-----------------------|------------|
| | | | | | | | Great Knot | 15 |
| | | | | | | | Whimbrel | 45 |
| | | | | | | | Red-necked Stint | 170 |
| | | | | | | | Greater Sand Plover | 28 |
| | | | | | | | Grey Plover | 7 |
| Bar Plains Beach | 22.3018 | 149.6261 | 28/10/2015 | 11:52 | 7.0 | 13:00-14:00 | Bar-tailed Godwit | 48 |
| | | | | | | | Great Knot | 464 |
| | | | | | | | Red-necked Stint | 5 |
| | | | | | | | Greater Sand Plover | 85 |
| | | | | | | | Lesser Sand Plover | 20 |
| Hoogly Point | 22.3578 | 149.6883 | 17/9/2017 | 09:07 | 7.14 | 08:00-10:00 | Bar-tailed Godwit | 40 |
| | | | | | | | Eastern Curlew | 231 |
| | | | | | | | Great Knot | 15 |
| | | | | | | | Whimbrel | 28 |
| | | | | | | | Red-necked Stint | 155 |
| | | | | | | | Greater Sand Plover | 12 |
| | | | | | | | Grey-tailed Tattler | 12 |
| Bar Plains Beach | 22.3018 | 149.6261 | 28/10/2015 | 11:52 | 7.0 | 13:00-14:00 | Bar-tailed Godwit | 11 |
| | | | | | | | Eastern Curlew | 62 |
| | | | | | | | Great Knot | 2 |
| | | | | | | | Red-necked Stint | 38 |
| | | | | | | | Whimbrel | 22 |

*Denotes internationally important shorebird numbers i.e. 1% of flyway estimate as provided in Hansen et.al 2016.