

Central Queensland Coal Project

Appendix 9h - Broad Sound - Shorebird Survey Count Data

**Supplementary
Environmental Impact
Statement**

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.