

Table 1: Matthews Correlation Coefficients based on model prediction for present day sea level (constrained to (i) natural land cover and (ii) low intensity land use) compared with present-day macrophyte mapping.

The following qualitative descriptors apply: 0.0-0.19 zero to negligible correlation, 0.2-0.39 weak correlation, 0.4-0.59 moderate correlation, 0.6-0.79 strong correlation, 0.8-1.0 very strong correlation. An MCC value is provided for total wetland area, and mangrove and saltmarsh areas separately in each estuary.

High MCC values indicate high confidence in the predictive model when applied to the present-day sea level and suggests a cautious level of confidence in the projections for future sea level scenarios, but there is no means to test the accuracy of future projections. It is recommended that results for estuaries where the MCC is between 0.4 and 0.6 are used with additional caution, and estuaries where $MCC < 0.4$ the projections should not be used (Hughes et al. 2022).

Estuary	Wetland (mangrove+saltmarsh)	Mangrove	Saltmarsh
arrawarra_creek	0.58	0.52	0.50
back_lagoon	0.66	NaN	0.66
baragoot_lake	0.76	NaN	0.76
batemans_bay	0.31	NaN	0.31
bega_river	0.64	NaN	0.64
bellinger_river	0.65	0.62	0.28
belongil_creek	0.29	0.41	0.21
bermagui_river	0.82	0.79	0.63
berrara_creek	0.60	NaN	0.60
boambee_creek	0.56	0.62	0.19
bonville_creek	0.56	0.44	0.53
botany_bay	0.95	0.87	0.63
brisbane_waters	0.85	0.52	0.54
brunswick_river	0.65	0.55	0.42
bunga_lagoon	0.84	NaN	0.84
burril_lake	0.77	NaN	0.77
cakora_lagoon	0.58	0.37	0.57
camden_haven	0.60	0.53	0.37
candlagen_creek	0.74	0.79	0.66
carama_creek	0.83	0.58	0.62
cathie_creek	0.67	NaN	0.67
clarence_river	0.47	0.41	0.29
clyde_river	0.88	0.74	0.39
coffs_creek	0.75	0.75	0.48
coila_lake	0.83	NaN	0.83
congo_creek	0.31	NaN	0.31
conjola_lake	0.48	0.10	0.49
cooks_river	0.75	0.75	0.71
corindi_river	0.54	0.45	0.52
corunna_lake	0.83	NaN	0.83
crooked_river	0.64	0.48	0.56
cudgen_creek	0.41	0.38	0.34
cudgera_creek	0.44	0.42	0.35
cullendulla_creek	0.89	0.75	0.52

curalo_lagoon	0.83	NaN	0.83
currambene_creek	0.72	0.66	0.42
cuttagee_lake	0.65	NaN	0.65
dalhousie_creek	0.72	0.61	0.68
darkum_creek	0.61	0.58	0.47
dee_why_lagoon	0.74	NaN	0.74
deep_creek	0.81	0.31	0.80
durras_lake	0.55	NaN	0.55
elliott_lake	0.58	0.49	0.62
evans_river	0.55	0.42	0.35
fisheries_creek	0.90	NaN	0.90
flat_rock_creek	0.57	NaN	0.57
georges_river	0.89	0.79	0.52
hastings_river	0.41	0.42	0.29
hawkesbury_river	0.80	0.71	0.46
hearns_lake	0.70	0.17	0.70
hunter_river	0.64	0.50	0.23
jervis_bay	0.67	0.55	0.78
karuah_river	0.81	0.60	0.48
khappinghat_creek	0.45	NaN	0.45
killick_creek	0.40	0.39	0.20
korogoro_creek	0.66	0.63	0.47
lake_brou	0.62	NaN	0.62
lake_brunderee	0.37	NaN	0.37
lake_illawarra	0.73	NaN	0.73
lake_macquarie	0.61	0.47	0.45
lake_mummuga	0.74	0.71	0.60
lane_cove_river	0.89	NaN	0.89
little_lake_wallaga	0.78	NaN	0.78
macleay_river	0.43	0.36	0.33
manning_river	0.45	0.54	0.27
merimbula_lake	0.93	0.78	0.81
meringo_creek	0.47	NaN	0.47
middle_harbour_creek	0.77	NaN	0.77
middle_lagoon	0.59	NaN	0.59
minnamurra_river	0.72	0.46	0.39
mooball_creek	0.41	0.44	0.19
moona_moona_creek	0.48	NaN	0.48
moonee_creek	0.67	0.54	0.60
moruya_river	0.67	0.64	0.55
murrah_river	0.73	0.55	0.70
myall_river	0.49	0.52	0.37
nadgee_river	0.55	NaN	0.55
nambucca_river	0.46	0.39	0.37
nangudga_lake	0.93	NaN	0.93
narawallee_inlet	0.71	0.56	0.49
narrabeen_lagoon	0.31	NaN	0.31
nelson_lagoon	0.91	0.74	0.50
nullica_river	0.73	0.47	0.81
pambula_river	0.92	0.76	0.53

parramatta_river	0.84	0.82	0.38
pittwater	0.87	0.81	0.63
port_hacking	0.83	0.69	0.61
port_stephens	0.84	0.56	0.40
richmond_river	0.32	0.32	0.17
sandon_river	0.72	0.56	0.51
shoalhaven_river	0.51	0.41	0.33
south_west_rocks_creek	0.72	0.67	0.61
station_creek	0.43	0.61	0.41
tabourie_lake	0.48	NaN	0.48
tilba_tilba_lake	0.83	NaN	0.83
tilligerry_creek	0.75	0.55	0.42
tomaga_river	0.78	0.72	0.65
towamba_river	0.57	0.60	0.55
tuggerah_lake	0.33	0.06	0.33
tuross_river	0.69	0.65	0.56
tweed_river	0.69	0.57	0.36
wagonga_inlet	0.78	0.79	0.31
wallaga_lake	0.47	NaN	0.47
wallagoot_lake	0.62	NaN	0.62
wallis_lakes	0.49	0.34	0.44
wapengo_lagoon	0.91	0.81	0.76
wonboyn_river	0.87	NaN	0.87
woolgoolga_lake	0.45	NaN	0.45
wooli_river	0.65	0.60	0.45
wowly_gully	0.83	NaN	0.83