

Supplementary Material

Using stable-isotope analysis to assess recent diet and habitat use of stranded green turtles (*Chelonia mydas*)

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Table S1. Epidermis raw stable isotope values and ratios for green turtle (*Chelonia mydas*) that stranded along the NSW coastline. *GT070220 has no CCL data associated with the stranded turtle but was originally observed as within juvenile/ sub adult size class.

Location	Sample ID	CCL (cm)	%C	% N	%S	C:N	C:S	N:S	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	$\delta^{34}\text{S}$ (‰)
North coast	GT011220	43	38.6	12.9	0.4	3.0	88.0	29.3	13.2	-15.8	15.2
	GT060920	39.5	34.2	11.9	0.5	2.9	70.6	24.5	13.2	-15.9	15.9
	GT070220	NA*	42.4	15.4	0.4	2.7	95.0	34.6	12.2	-16.2	16.6
	GT110120	43.5	41.2	14.3	0.4	2.9	105.4	36.7	15.1	-14.4	16.3
	GT131120	41	43.2	14.7	0.6	2.9	75.0	25.4	10.5	-16.3	17.9
	GT211220_A2	86.5	41.8	14.9	0.4	2.8	101.3	36.2	13.0	-17.8	16.6
	GT240121	42	32.2	11.1	0.6	2.9	55.8	19.3	13.6	-16.1	14.8
	GT281020	49	42.7	14.5	0.6	2.9	67.3	22.9	12.4	-14.8	16.1
	GT191120	43	42.3	15.0	0.5	2.8	85.4	30.3	10.0	-15.0	19.0
Mid-north coast	GT010120	43	42.4	16.2	0.3	2.6	142.2	54.4	14.7	-14.7	16.2
	GT010620-B	43	25.8	9.6	0.2	2.7	138.5	51.4	11.8	-15.8	N/A
	GT021119	38.5	47.3	16.3	0.8	2.9	58.9	20.2	15.5	-15.4	17.2
	GT040320_A1	40	33.3	11.5	0.4	2.9	82.0	28.4	9.7	-15.7	17.8
	GT040320_A2	40.5	40.4	15.1	0.4	2.7	96.7	36.2	10.4	-15.2	16.9
	GT050320	45	40.7	14.8	0.6	2.8	63.8	23.1	15.1	-14.4	18.2
	GT080220-V	44	40.6	14.5	0.4	2.8	91.7	32.8	10.4	-15.0	17.8
	GT080220-NV	43	40.5	15.4	0.4	2.6	97.0	36.9	14.8	-14.9	18.1
	GT091120	42	44.4	14.8	0.7	3.0	66.2	22.0	14.4	-15.8	17.8
	GT151120-B	43	35.9	12.2	0.5	2.9	77.1	26.2	13.7	-14.9	17.3
	GT160120	40.5	33.3	12.2	0.4	2.7	87.9	32.3	14.6	-15.0	17.0
	GT191120	43	42.3	15.0	0.5	2.8	85.4	30.3	10.0	-15.0	19.0
	GT231219	44	14.2	5.3	0.1	2.7	105.3	39.1	14.7	-15.0	N/A
	GT241220	44.5	30.1	11.3	0.2	2.7	133.2	50.2	12.2	-15.9	N/A
	GT290220	45	36.8	12.6	0.5	2.9	70.6	24.1	11.5	-15.1	16.6
GT131219	37	43.2	15.0	0.7	2.9	63.1	21.9	13.0	-15.4	17.4	

	GT060120-B	41	43.1	15.2	0.6	2.8	66.6	23.5	10.4	-15.8	17.5
	GT060120-PB	43	42.5	15.2	0.6	2.8	76.8	27.5	10.6	-15.8	18.2
Central coast	Bella 029	60.5	40.3	15.3	2.1	2.6	19.2	7.3	14.0	-14.8	4.3
	Beryl	90	4.3	4.4	0.1	1.0	38.9	40.0	15.1	-17.1	N/A
	CJ	64.5	40.8	15.3	0.3	2.7	121.0	45.4	12.0	-14.6	16.8
	Darcy	43	41.4	14.2	0.7	2.9	63.0	21.7	11.2	-14.9	18.0
	GST13923.1	58.5	41.2	14.2	0.6	2.9	74.5	25.7	12.8	-15.1	18.9
	GT080920	58	68.6	23.6	0.9	2.9	74.7	25.7	10.8	-15.3	18.8
	GT11964.2	52	41.1	15.9	0.4	2.6	105.9	40.9	10.4	-12.8	14.4
	Holly	61	39.1	13.7	0.5	2.9	75.8	26.5	13.8	-13.5	15.3

Table S2. Raw stable isotope values and ratios for sampled mangrove species along the NSW coastline.

Species	Location	Sample ID	%C	% N	%S	C:N	C:S	N:S	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	$\delta^{34}\text{S}$ (‰)
<i>Avicennia marina</i>	Hastings Creek	AM.HHC.R1	33.7	1.8	0.4	18.7	84.3	4.5	6.7	-26.8	10.8
		AM.HHC.R2	33.3	2.5	0.3	13.3	111.0	8.3	6.6	-27.5	8.5
		AM.HHC.R3	33.7	1.5	0.3	22.5	112.3	5.0	7.3	-26.8	8.9
	Macleay River (Yamba)	AM.YM.R1	35.6	1.7	0.5	20.9	71.2	3.4	5.2	-29.1	-0.3
		AM.YM.R2	41.5	1.3	1.7	31.9	24.4	0.8	2.4	-29.2	-3.7
		AM.YM.R3	36.5	1.1	0.2	33.2	182.5	5.5	4.5	-27.3	-4.3
	Red Rock Creek	AM.RC.R1	35.5	2.2	0.2	16.1	177.5	11.0	2.9	-28.3	3.5
		AM.RC.R2	37.5	2.2	0.2	17.0	187.5	11.0	3.9	-27.7	0.4
		AM.RC.R3	37.7	2	0.3	18.9	125.7	6.7	2.4	-27.3	4.3
		AM.RC.R4	38.3	1.8	0.4	21.3	95.8	4.5	6.6	-27.6	3.2
North Creek (Ballina)	AM.BN.R1	38.2	2	0.2	19.1	191.0	10.0	6.1	-29.2	3.7	
<i>Aegiceras corniculatum</i>	North Creek (Ballina)	AC.BN.R1	38	2.2	0.2	17.3	190.0	11.0	5.0	-27.0	1.7
	Hastings Creek	AC.HHC.R1	40.7	1.2	0.3	33.9	135.7	4.0	6.0	-29.5	6.8
<i>Rhizophora stylosa</i>	Hastings Creek	RS.HHC.R1	32.1	1	0.3	32.1	107.0	3.3	10.3	-29.9	0.6
		RS.HHC.R2	33	1	0.4	33.0	82.5	2.5	6.6	-31.2	0.0
	Red Rock Creek	RS.RC.R1	38.7	2.3	0.3	16.8	129.0	7.7	2.5	-27.0	13.8
<i>Bruguiera gymnorhiza</i>	Macleay River (Yamba)	BG.YM.R1	36.3	1.1	0.3	33.0	121.0	3.7	3.6	-28.2	6.6
		BG.YM.R2	36.9	1.1	0.3	33.5	123.0	3.7	3.9	-28.2	-0.6
<i>Avicennia officianlis</i>	North Creek (Ballina)	AO.BN.R1	41.4	0.9	0.3	46.0	138.0	3.0	1.5	-30.3	13.9
		AO.BN.R2	40.9	1.1	0.3	37.2	136.3	3.7	6.3	-30.8	5.8
		AO.BN.R3	41.6	0.9	0.3	46.2	138.7	3.0	6.2	-29.9	8.6

Table S3. Raw stable isotope values and ratios for sampled seagrass species along the NSW coastline.

Species	Location	Sample ID	%C	% N	%S	C:N	C:S	N:S	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	$\delta^{34}\text{S}$ (‰)	
<i>Halophila ovalis</i>	Corrigan's Beach (Bateman's Bay)	HO.BC.R1	18.5	1.1	0.7	17.5	28.1	1.6	5.1	-9.3	14.5	
		HO.BC.R2	22.0	1.6	0.8	14.0	26.7	1.9	4.7	-10.3	17.2	
		HO.BC.R3	21.1	1.5	0.8	14.1	27.5	2.0	5.3	-10.5	17.1	
	Callala Bay (Jervis Bay)	HO.JC.R1	20.0	1.4	0.8	14.5	25.5	1.8	6.0	-9.6	14.7	
		HO.JC.R2	24.1	1.6	0.8	14.6	29.3	2.0	6.7	-10.1	14.4	
		HO.JC.R3	20.3	1.4	1.2	14.3	17.5	1.2	6.3	-9.9	14.8	
	Vincentia (Jervis Bay)	HO.JVC.R1	22.2	2.0	0.7	11.4	33.6	3.0	5.6	-9.4	16.1	
		HO.JVC.R2	22.4	1.7	0.9	12.9	25.8	2.0	7.1	-9.6	16.5	
		HO.JVC.R3	18.7	1.3	0.7	14.3	25.6	1.8	6.1	-10.1	17.5	
	Minnie Waters (Solitary Islands Marine Reserve)	HO.SM.R1	27.2	1.9	0.8	14.1	32.4	2.3	7.2	-10.1	19.9	
	<i>Posidonia australis</i>	Corrigan's Beach (Bateman's Bay)	PA.BC.R1	33.1	1.8	0.7	18.3	49.2	2.7	7.1	-10.0	14.4
			PA.BC.R2	33.7	1.9	0.7	18.0	48.6	2.7	6.1	-9.8	17.7
PA.BC.R3			33.4	1.7	0.7	19.5	47.1	2.4	6.7	-10.1	15.7	
Maloneys Beach (Bateman's Bay)		PA.BM.R1	37.1	1.9	0.6	19.4	67.3	3.5	3.9	-11.0	17.2	
Narooma (Bateman's Bay)		PA.BN.R1	38.4	1.7	0.4	22.4	96.2	4.3	4.6	-7.7	10.8	
		PA.BN.R2	37.5	1.5	0.5	25.3	82.6	3.3	4.3	-7.8	9.2	
		PA.BN.R3	38.7	1.9	0.4	19.9	106.6	5.3	5.4	-7.3	18.8	
Callala Bay (Jervis Bay)		PA.JC.R1	38.1	2.3	0.4	16.9	98.0	5.8	4.3	-9.0	15.5	
		PA.JC.R2	39.5	2.0	0.3	20.2	135.6	6.7	7.4	-8.5	13.6	
		PA.JC.R3	33.8	1.7	0.3	19.9	102.6	5.2	5.2	-8.3	15.7	
Vincentia (Jervis Bay)		PA.JVC.R1	38.5	1.5	0.4	25.4	101.3	4.0	7.0	-9.0	19.7	
		PA.JVC.R2	28.6	1.2	1.0	22.9	29.1	1.3	7.7	-8.5	17.4	
		PA.JVC.R3	30.8	1.5	0.8	20.5	37.8	1.8	7.2	-10.3	19.3	
<i>Zostera muelleri</i>		Marooga River (Bateman's Bay)	ZM.BMO.R1	28.6	1.2	0.8	23.6	37.1	1.6	5.7	-9.1	6.1
			ZM.BMO.R2	25.3	1.2	1.0	21.0	25.2	1.2	1.2	-7.8	-0.1
	ZM.BMO.R3		27.6	1.5	0.9	18.6	29.2	1.6	2.5	-8.1	4.8	

Narooma (Bateman's Bay)	ZM.BN.R1	27.9	1.3	0.7	22.0	37.2	1.7	6.0	-7.8	16.5
	ZM.BN.R2	27.6	1.4	0.8	20.1	35.9	1.8	6.0	-7.9	17.2
	ZM.BN.R3	27.4	1.4	0.7	19.8	39.7	2.0	5.2	-7.5	16.4
Brunswick River (Byron Bay)	ZM.CB.R1	24.0	1.1	0.7	22.2	32.1	1.4	6.5	-11.6	9.7
	ZM.CB.R2	30.2	1.2	0.7	26.1	42.6	1.6	5.7	-10.9	12.5
	ZM.CB.R3	29.0	1.3	0.7	21.9	41.6	1.9	6.8	-10.7	11.9
Richmond River (Ballina)	ZM.CR.R1	26.0	1.1	0.6	22.9	40.7	1.8	6.3	-9.8	16.6
	ZM.CR.R2	23.5	1.0	0.4	22.7	58.5	2.6	4.0	-10.5	13.3
	ZM.CR.R3	26.8	1.2	0.6	22.1	44.5	2.0	5.2	-9.9	17.5
Shaws Bay (Ballina)	ZM.CS.R1	31.1	1.3	0.6	23.3	49.4	2.1	5.9	-10.5	6.4
	ZM.CS.R2	31.2	1.2	0.5	26.8	58.0	2.2	7.3	-9.8	7.2
	ZM.CS.R3	32.2	1.5	0.6	21.3	50.2	2.4	5.2	-10.5	10.3
Callala Bay (Jervis Bay)	ZM.JC.R1	22.1	1.4	1.4	15.7	15.5	1.0	6.0	-11.9	10.4
	ZM.JC.R2	19.9	1.1	1.1	17.5	18.9	1.1	7.8	-10.9	8.8
	ZM.JC.R3	16.9	1.0	1.1	17.6	15.8	0.9	8.4	-11.2	10.4
Vincentia (Jervis Bay)	ZM.JVC.R1	21.4	1.4	0.8	15.0	26.4	1.8	6.0	-11.9	15.1
	ZM.JVC.R2	26.1	1.7	1.0	15.4	25.7	1.7	7.5	-11.4	11.8
	ZM.JVC.R3	26.2	1.7	1.0	15.3	26.7	1.7	6.6	-11.4	11.3
Myana Bay Reserve (Lake Macquarie)	ZM.LM.R1	35.2	1.4	0.4	29.3	235.5	9.0	4.3	-11.9	10.7
	ZM.LM.R2	36.2	1.4	0.4	31.2	265.6	8.5	4.6	-11.0	6.3
	ZM.LM.R3	27.7	1.4	0.8	19.8	34.8	1.8	3.2	-11.0	9.0
Rieds Reserve (Lake Macquarie)	ZM.LR.R1	32.7	1.6	0.4	23.7	226.5	9.6	6.4	-10.9	10.4
	ZM.LR.R2	33.5	1.5	0.4	25.9	208.7	8.0	7.2	-10.9	12.1
	ZM.LR.R3	34.8	1.7	0.5	24.2	177.0	7.3	6.8	-11.1	16.0
	ZM.LR.R4	36.5	2.0	1.0	18.5	35.5	1.9	5.8	-16.0	19.9
Swansea (Lake Macquarie)	ZM.LS.R1	35.2	1.6	0.3	26.5	290.4	11.0	2.3	-9.7	4.5
	ZM.LS.R2	31.7	1.1	0.5	32.5	174.0	5.4	3.8	-10.1	5.0
	ZM.LS.R3	31.7	1.3	0.5	27.5	184.4	6.7	3.8	-10.1	6.3
Wangi Wangi (Lake Macquarie)	ZM.LW.R1	32	1.3	0.6	28.0	134.7	4.8	9.7	-11.0	14.5

	ZM.LW.R2	32.0	1.7	0.8	18.7	42.2	2.3	10.8	-10.0	15.4
	ZM.LW.R3	36	1.6	0.5	26.1	207.5	7.9	7.2	-10.6	9.4
Bagnalls Beach (Port Stephens)	ZM.PB.R1	35.8	1.8	0.5	23.4	178.6	7.6	4.9	-10.4	9.6
	ZM.PB.R2	35.5	2.0	0.6	21.1	163.8	7.8	5.9	-11.0	9.1
	ZM.PB.R3	33.8	1.6	0.5	23.9	191.5	8.0	6.1	-12.0	14.5
Cottage Point (Pittwater)	ZM.PC.R1	26.9	1.6	0.7	16.9	36.5	2.2	4.0	-13.7	10.7
	ZM.PC.R2	19.7	1.6	0.5	26.2	38.1	2.8	6.7	-13.4	13.5
	ZM.PC.R3	19.2	1.3	0.7	14.3	27.2	1.9	4.2	-13.4	11.8
Ettalong (Pittwater)	ZM.PE.R1	31.5	1.9	0.7	19.4	128.4	6.6	5.9	-11.3	19.3
	ZM.PE.R2	30.9	1.8	0.7	19.7	121.0	6.2	7.9	-12.5	19.0
	ZM.PE.R3	30.1	2.1	0.7	17.0	119.2	7.0	8.7	-11.7	19.1
Patonga (Pittwater)	ZM.PP.R1	26.4	2.2	0.8	11.8	31.5	2.7	6.5	-12.6	15.3
	ZM.PP.R2	25.3	2.2	0.8	11.3	32.0	2.8	6.0	-12.9	13.2
	ZM.PP.R3	26.5	2.3	0.8	11.3	31.4	2.8	7.1	-12.1	13.3
Soldiers Point (Port Stephens)	ZM.PS.R1	34.0	1.5	0.4	26.7	208.7	7.8	5.1	-11.5	12.6
	ZM.PS.R2	34.4	1.5	0.4	25.9	212.4	8.2	6.9	-12.0	11.5
	ZM.PS.R3	30.3	1.7	0.9	17.8	34.9	2.0	5.4	-12.7	7.0
Shoal Bay (Port Stephens)	ZM.PSB.R1	34.2	1.8	0.5	22.1	198.8	9.0	5.7	-9.8	11.1
	ZM.PSB.R2	36.0	2.2	0.5	18.7	177.1	9.5	6.1	-11.0	11.7
	ZM.PSB.R3	36.9	2.3	0.5	18.7	206.2	11.0	4.5	-9.4	9.1
Cottage Point (Pittwater)	ZM.SC.R1	28.3	1.7	0.9	16.7	30.9	1.8	6.2	-11.9	13.5
	ZM.SC.R2	30.9	1.9	0.8	16.0	36.8	2.3	8.0	-14.1	10.5
	ZM.SC.R3	30.6	1.5	0.7	20.2	41.6	2.1	4.0	-10.6	1.5
Kurnell (Sydney)	ZM.SK.R1	32.5	1.8	0.6	21.0	134.9	6.4	5.4	-11.8	14.2
	ZM.SK.R2	31.4	1.7	0.7	21.4	125.8	5.9	5.5	-11.3	15.7
	ZM.SK.R3	30.8	1.6	0.7	22.3	121.2	5.4	6.8	-12.4	17.1
Minnie Waters (Solitary Islands Marine Reserve)	ZM.SM.R1	28.8	2.1	1.2	13.8	24.0	1.7	6.7	-11.2	19.9
	ZM.SM.R2	30.2	2.0	1.1	14.8	27.8	1.9	6.7	-12.0	19.0
	ZM.SM.R3	29.8	2.1	1.1	14.4	27.8	1.9	6.6	-10.9	18.4

Vaucluse (Sydney)	ZM.SV.R1	31.2	1.6	0.7	22.6	44.2	5.4	6.5	-10.4	13.5
	ZM.SV.R2	29.6	2.0	0.9	14.8	33.9	2.3	7.8	-11.7	13.3
	ZM.SV.R3	27.9	1.9	0.8	15.0	33.7	2.3	6.8	-10.7	14.6
Woolie River (Solitary Islands Marine Reserve)	ZM.SW.R1	30.2	1.5	0.4	26.7	198.2	8.7	8.0	-12.6	14.0
	ZM.SW.R2	33.4	1.5	0.6	33.2	235.6	9.8	5.8	-12.1	11.5
	ZM.SW.R3	36.2	1.6	0.5	48.1	266.8	7.7	9.2	-11.6	13.4

Table S4. Raw stable isotope values and ratios for sampled macroalgae species along the NSW coastline.

Species	Location	Sample ID	%C	% N	%S	C :N	C:S	N:S	$\delta^{15}\text{N}$ (‰)	$\delta^{13}\text{C}$ (‰)	$\delta^{34}\text{S}$ (‰)
Brown algae	Cottage Point (Bateman's Bay)	BA.BC.R1	26.8	2.1	1.2	13.0	21.7	1.7	7.3	-16.0	16.8
		BA.BC.R2	29.1	1.8	1.2	16.2	24.7	1.5	7.1	-16.3	16.8
		BA.BC.R3	28.7	1.3	1.1	21.3	25.2	1.2	7.5	-15.4	16.4
	Maloneys Beach (Bateman's Bay)	BA.BM.R1	31.3	1.6	1.1	19.2	27.7	1.4	6.8	-17.0	17.8
		BA.BM.R2	30.4	1.9	1.5	15.7	20.8	1.3	7.0	-16.5	16.3
		BA.BM.R3	30.6	2.4	1.5	12.8	20.9	1.6	7.2	-15.5	16.7
	Clarkes Beach (Byron Bay)	BA.CC.R1	17.0	0.9	1.6	18.8	10.5	0.6	6.6	-15.7	16.8
		BA.CC.R2	22.6	1.6	1.7	13.8	13.5	1.0	6.0	-13.4	16.0
		BA.CC.R3	22.5	1.1	1.7	20.8	13.5	0.6	6.5	-15.6	16.0
	Flat Rock Beach (Byron Bay)	BA.CF.R1	28.6	1.7	1.3	16.4	22.8	1.4	7.7	-13.1	17.8
		BA.CF.R2	23.7	1.5	1.5	15.5	16.3	1.0	6.8	-16.2	16.8
		BA.CF.R3	25.6	1.6	1.6	16.5	15.8	1.0	7.5	-15.3	16.0
Callala Bay (Jervis Bay)	BA.JC.R1	26.1	1.7	1.5	15.4	16.9	1.1	7.6	-12.9	15.7	
	BA.JC.R2	27.0	1.6	1.6	16.6	17.4	1.0	7.9	-12.4	15.1	
	BA.JC.R3	25.5	1.2	1.9	20.8	13.4	0.6	6.0	-13.6	13.6	
	BA.JC.R4	24.7	1.6	1.7	15.7	14.6	0.9	8.6	-12.8	15.1	
Currawong Boat Ramp (Jervis Bay)	BA.JCU.R1	25.8	1.5	1.3	17.6	20.1	1.1	7.4	-17.0	16.6	
	BA.JCU.R2	20.3	1.2	1.9	16.3	10.7	0.7	8.5	-16.5	14.3	

		BA.JCU.R3	24.7	1.5	1.3	16.0	18.6	1.2	8.4	-15.7	16.4
	Currawong Boat Ramp (Jervis Bay)	BA.JVC.R1	25.2	1.6	1.2	15.6	20.3	1.3	6.3	-14.2	16.5
		BA.JVC.R2	23.2	1.6	1.4	14.1	16.6	1.2	7.8	-14.3	16.5
		BA.JVC.R3	20.0	1.4	0.9	14.0	21.7	1.5	6.5	-13.8	16.7
	Myuna Bay (Lake Macquarie)	BA.LM.R1	15.5	1.5	1.1	10.3	14.0	1.4	7.1	-16.8	18.0
		BA.LM.R2	29.5	2.3	3.5	12.9	8.5	0.7	5.7	-17.1	19.9
		BA.LM.R3	33.9	2.1	1.6	16.3	20.6	1.3	6.8	-17.5	19.0
	Rieds Reserve (Lake Macquarie)	BA.LR.R1	34.5	1.8	1.3	18.6	26.9	1.4	8.2	-14.5	19.0
		BA.LR.R2	34.3	1.9	1.7	17.8	19.9	1.1	3.8	-16.7	19.1
		BA.LR.R3	32.4	1.5	1.0	22.3	31.3	1.4	7.8	-12.4	19.5
	Bagnalls Beach (Port Stephens)	BA.PB.R1	13.3	2.3	1.6	5.9	8.2	1.4	6.4	-15.7	17.9
		BA.PB.R2	17.2	2.9	1.9	6.0	9.0	1.5	7.7	-16.0	18.3
		BA.PB.R3	13.3	2.8	1.9	4.8	7.0	1.5	7.6	-16.4	18.1
	Soldiers Point (Port Stephens)	BA.PS.R1	23.9	1.6	1.6	14.9	15.3	1.0	5.5	-18.5	19.6
		BA.PS.R2	21.8	1.8	1.3	12.5	16.3	1.3	6.1	-18.5	19.0
		BA.PS.R3	24.0	1.5	1.4	16.3	17.7	1.1	6.7	-17.7	18.5
	Minnie Waters (Solitary Islands Marine Reserve)	BA.SM.R1	23.3	1.5	1.1	15.3	21.8	1.4	6.7	-13.4	19.8
		BA.SM.R2	29.0	1.6	0.9	18.1	30.8	1.7	7.2	-12.5	19.9
		BA.SM.R3	26.2	1.9	1.6	13.7	16.2	1.2	7.3	-15.4	20.1
	Sandon River (Solitary Islands Marine Reserve)	BA.SS.R1	20.7	1.6	1.1	13.2	19.7	1.5	8.2	-14.4	19.2
		BA.SS.R2	28.5	2.4	1.3	12.0	21.6	1.8	7.6	-15.7	20.1
		BA.SS.R3	30.1	1.9	1.3	16.1	22.8	1.4	7.3	-16.9	19.8
	Sandon Beach (Solitary Islands Marine Reserve)	BA.SSB.R1	28.4	2.3	1.4	12.6	19.7	1.6	6.6	-15.2	20.5
		BA.SSB.R2	31.5	2.6	1.3	12.3	23.6	1.9	7.3	-14.9	20.4
		BA.SSB.R3	24.1	2.1	1.5	11.4	16.1	1.4	5.6	-18.2	20.4
Green algae	Flat Rock (Byron Bay)	GA.CF.R1	11.7	1.1	2.5	10.7	4.7	0.4	7.7	-14.4	12.1
		GA.CF.R2	17.1	1.4	3.8	12.6	4.6	0.4	6.8	-12.2	6.0
		GA.CF.R3	19.5	1.5	4.8	13.4	4.1	0.3	6.9	-13.8	1.7
		GA.CF.R4	17.0	1.5	1.4	11.6	12.4	1.1	7.2	-12.5	17.9

		GA.CF.R5	18.0	1.6	1.5	11.3	12.3	1.1	6.2	-12.0	17.6
Red algae	Flat Rock (Byron Bay)	RA.CF.R1	32.8	3.1	2.9	10.7	11.3	1.1	4.0	-18.8	11.8
	Callala Bay (Jervis Bay)	RA.JC.R1	22.5	2.0	4.6	11.2	4.9	0.4	9.1	-15.8	2.2
		RA.JC.R2	21.9	2.5	4.4	8.6	5.0	0.6	8.7	-18.7	4.7
	Reids Reserve (Lake Macquarie)	RA.LR.R1	15.3	2.5	1.4	6.0	11.0	1.8	9.9	-15.5	16.3
		RA.LR.R2	27.0	2.6	2.2	10.6	12.2	1.2	9.2	-16.7	18.0
		RA.LR.R3	11.5	1.9	1.0	6.2	10.9	1.8	8.3	-15.6	17.1
	Shoal Bay (Port Stephens)	RA.PSB.R1	23.6	2.4	1.5	9.7	16.0	1.7	8.6	-17.1	17.7
		RA.PSB.R2	24.4	2.6	1.4	9.3	17.2	1.8	8.1	-18.9	18.8
		RA.PSB.R3	24.5	2.6	1.5	9.6	16.6	1.7	6.8	-17.9	19.1
Coralline algae	Flat Rock (Byron Bay)	C.CF.R1	15.5	0.8	0.4	18.5	39.1	2.1	5.8	-11.1	21.4
		C.CF.R2	14.3	0.7	0.2	20.3	62.8	3.1	5.6	-8.7	21.6
		C.CF.R3	13.8	0.6	0.1	22.0	108.5	4.9	6.3	-9.9	19.5

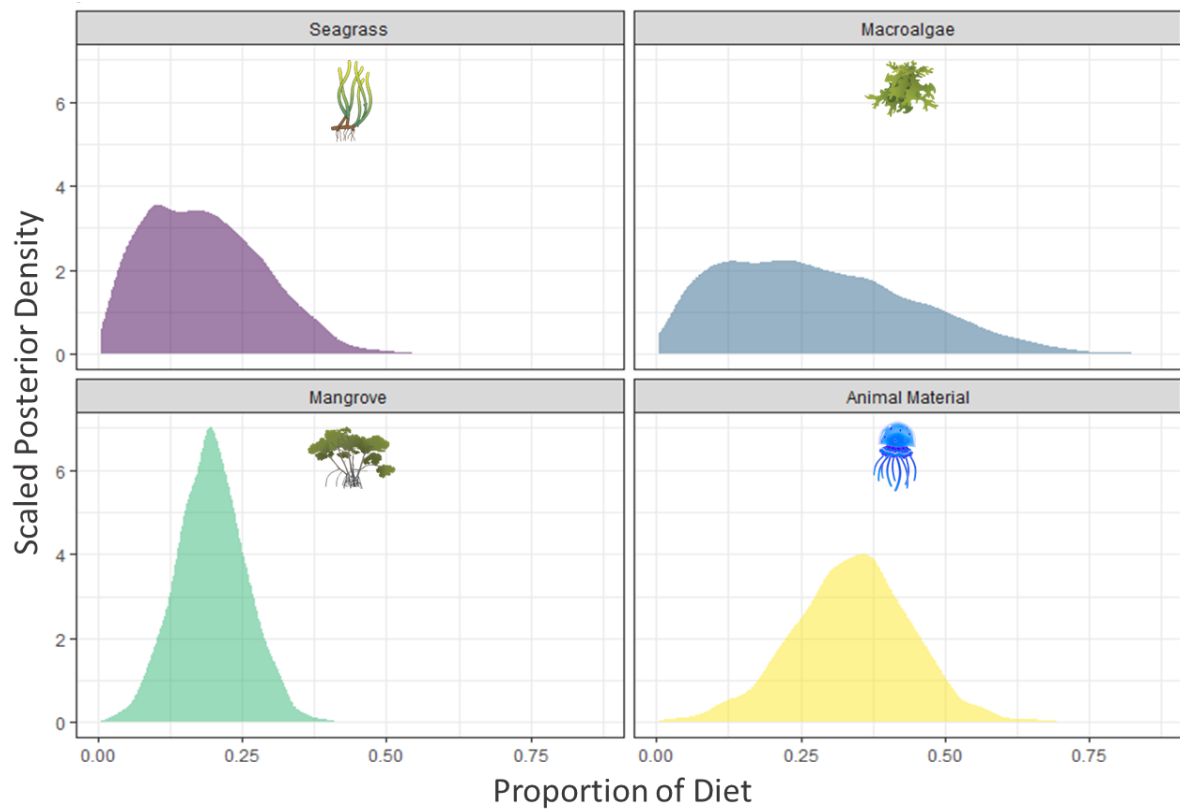


Figure S1. Posterior distributions plot of the relative proportions of each diet source to the overall diet composition of sampled green turtles (*Chelonia mydas*) stranded along the central NSW coastline, based on average $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^{34}\text{S}$ values of sampled diet items, animal material sourced from literature (see methods: Green turtle diet source sampling), and epidermis tissue from stranded green turtles, adjusting for trophic enrichment (Turner Tomaszewicz et al. 2017).

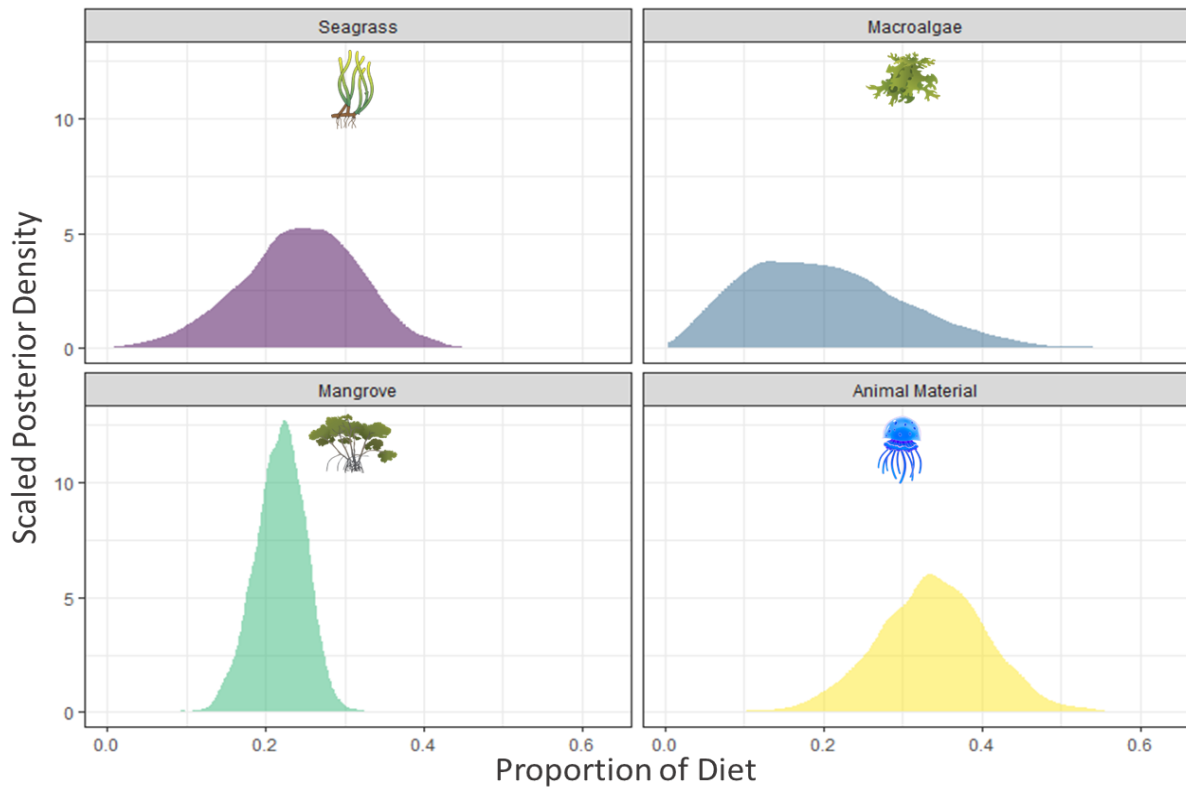


Figure S2. Posterior distributions plot of the relative proportions of each diet source to the overall diet composition of sampled green turtles (*Chelonia mydas*) stranded along the mid-north NSW coastline, based on average $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^{34}\text{S}$ values of sampled diet items, animal material sourced from literature (see methods: Green turtle diet source sampling), and epidermis tissue from stranded green turtles, adjusting for trophic enrichment (Turner Tomaszewicz et al. 2017).

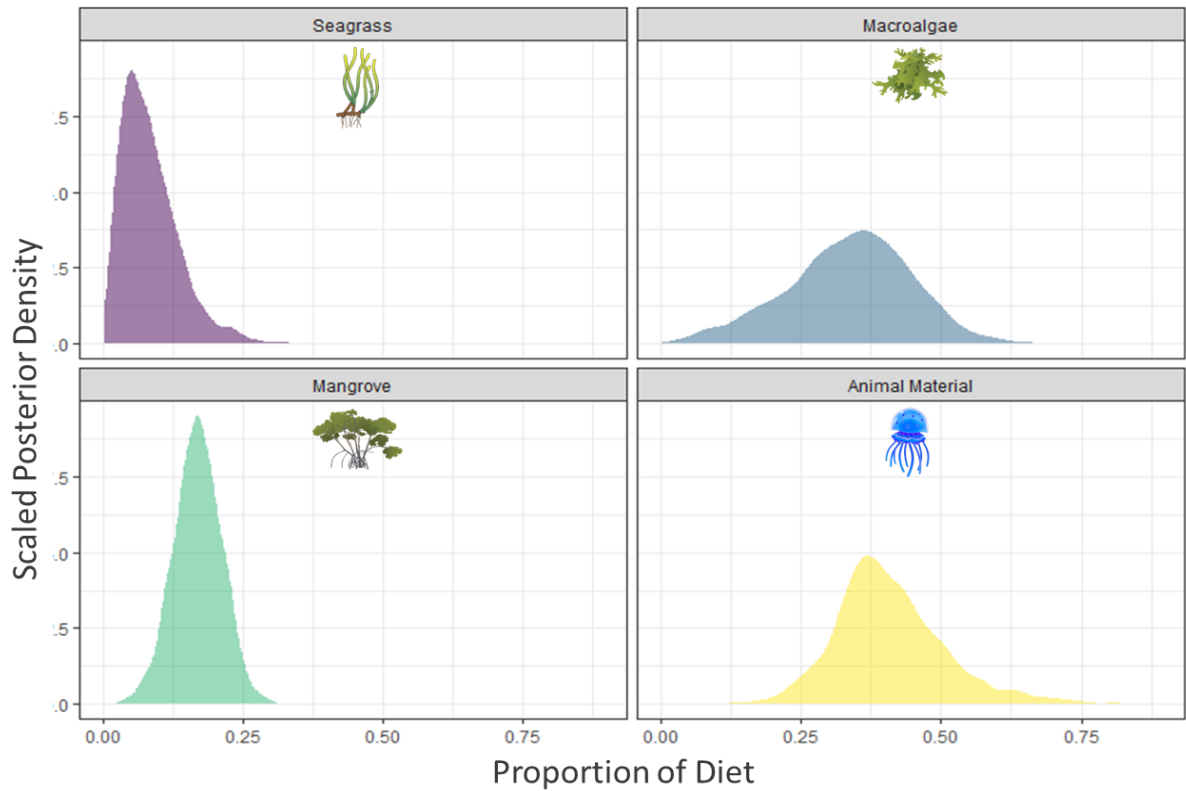


Figure S3. Posterior distributions plot of the relative proportions of each diet source to the overall diet composition of sampled green turtles (*Chelonia mydas*) stranded along the northern NSW coastline, based on average $\delta^{13}\text{C}$, $\delta^{15}\text{N}$ and $\delta^{34}\text{S}$ values of sampled diet items, animal material sourced from literature (see methods: Green turtle diet source sampling), and epidermis tissue from stranded green turtles, adjusting for trophic enrichment (Turner Tomaszewicz et al. 2017).