Confusion Matrix for NOAA and CCI predictability of Coral Bleaching

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Reef	Balanced	Accuracy	F1	Sensitivit	Specificit	y Pos	Neg	AUC	Lower	Upper	Kappa	MCC	Detection	onDetection	nPrevalence
	Accu-					Pred	Pred		CI	CI			Rate	Preva-	
	racy					Value	Value							lence	
Browse	0.90	0.81	0.22	1.00	0.80	0.12	1.00	0.90	0.85	0.95	0.18	0.32	0.03	0.22	0.03
Island															
Cocos	0.84	0.92	0.67	0.75	0.94	0.60	0.97	0.84	0.68	1.00	0.62	0.62	0.08	0.14	0.11
(Keel-															
ing)															
Is-															
lands															
Ningaloc	0.57	0.86	0.17	0.25	0.90	0.12	0.95	0.57	0.33	0.82	0.10	0.11	0.01	0.11	0.06
Reef															
Scott	0.55	0.78	0.20	0.25	0.84	0.17	0.90	0.55	0.47	0.62	0.08	0.08	0.03	0.17	0.11
Reef															

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Reef	Balanced	Accuracy	F1	Sensitivit	Specifici	ty Pos	Neg	AUC	Lower	Upper	Kappa	MCC	Detection	nDetection	nPrevalenc
	Accu-					Pred	Pred		CI	CI			Rate	Preva-	
	racy					Value	Value							lence	
Browse	0.82	0.66	0.15	1.00	0.65	0.08	1.00	0.82	0.76	0.88	0.10	0.23	0.03	0.38	0.03
Island															
Cocos	0.62	0.91	0.40	0.25	1.00	1.00	0.90	0.62	0.46	0.79	0.37	0.48	0.03	0.03	0.12
(Keel-															
ing)															
Is-															
lands															
Ningaloc	0.57	0.86	0.18	0.25	0.90	0.14	0.95	0.57	0.33	0.82	0.11	0.12	0.02	0.11	0.06
Reef															
Scott	0.73	0.72	0.40	0.75	0.71	0.27	0.95	0.73	0.65	0.81	0.26	0.32	0.09	0.35	0.12
Reef															

							0	0	0					
Balanced	Accuracy	F1	Sensitivit	Specificity	Pos	Neg	AUC	Lower	Upper	Kappa	MCC	Detection	nDetection	nPrevalence
Accu-					Pred	Pred		CI	CI			Rate	Preva-	
racy					Value	Value							lence	
0.83	0.67	0.14	1.00	0.66	0.08	1.00	0.83	0.77	0.88	0.10	0.22	0.03	0.36	0.03
0.73	0.72	0.38	0.75	0.72	0.25	0.96	0.73	0.56	0.90	0.25	0.31	0.08	0.33	0.11
0.75	0.81	0.29	0.67	0.82	0.18	0.98	0.75	0.54	0.96	0.22	0.28	0.04	0.20	0.06
0.62	0.72	0.29	0.50	0.75	0.20	0.92	0.62	0.54	0.71	0.15	0.18	0.06	0.28	0.11
	Accuracy 0.83 0.73	racy 0.83	Accuracy 0.83 0.67 0.14 0.73 0.72 0.38 0 0.75 0.81 0.29	Accuracy 0.83 0.67 0.14 1.00 0.73 0.72 0.38 0.75 0 0.75 0.81 0.29 0.67	Accuracy 0.83 0.67 0.14 1.00 0.66 0.73 0.72 0.38 0.75 0.72 0 0.75 0.81 0.29 0.67 0.82	Accuracy Pred Value 0.83 0.67 0.14 1.00 0.66 0.08 0.73 0.72 0.38 0.75 0.72 0.25 0.075 0.81 0.29 0.67 0.82 0.18	Balanced Accuracy F1 Sensitivit@pecificity Pos Neg Accuracy Pred Pred Value Pred Value Value Value 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.075 0.81 0.29 0.67 0.82 0.18 0.98	Balanced Accuracy F1 Sensitivit Specificity Pos Pred Pred Value Neg Value AUC Accuracy 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.83 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.73 0.75 0.81 0.29 0.67 0.82 0.18 0.98 0.75	Balanced Accuracy F1 Sensitivit Specificity Pos Neg AUC Lower Accuracy Pred Value Pred Value Value Value CI 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.83 0.77 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.73 0.56 0.075 0.81 0.29 0.67 0.82 0.18 0.98 0.75 0.54	Balanced Accuracy F1 Sensitivit Specificity Pos Neg AUC Lower Upper Accuracy Value Value Value CI CI 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.83 0.77 0.88 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.73 0.56 0.90 0.075 0.81 0.29 0.67 0.82 0.18 0.98 0.75 0.54 0.96	Balanced Accuracy F1 Sensitivit Specificity Pos Neg AUC Lower CI Upper CI Kappa CI Accuracy Value Value Value Value CI CI	Balanced Accuracy F1 Sensitivit Specificity Pos Neg AUC Lower Upper CI Kappa MCC Accuracy Value Value Value CI CI	Balanced Accuracy F1 Sensitivit@pecificity Pos Neg AUC Lower Upper Kappa MCC Detection Rate Accuracy Value Value <td>Balanced Accuracy F1 Sensitivit pecificity Pos Neg AUC Lower Upper Kappa MCC Detection Detection Accuracy Pred Pred Pred CI CI CI CI Rate Prevalence 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.83 0.77 0.88 0.10 0.22 0.03 0.36 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.73 0.56 0.90 0.25 0.31 0.08 0.33 0.075 0.81 0.29 0.67 0.82 0.18 0.98 0.75 0.54 0.96 0.22 0.28 0.04 0.20</td>	Balanced Accuracy F1 Sensitivit pecificity Pos Neg AUC Lower Upper Kappa MCC Detection Detection Accuracy Pred Pred Pred CI CI CI CI Rate Prevalence 0.83 0.67 0.14 1.00 0.66 0.08 1.00 0.83 0.77 0.88 0.10 0.22 0.03 0.36 0.73 0.72 0.38 0.75 0.72 0.25 0.96 0.73 0.56 0.90 0.25 0.31 0.08 0.33 0.075 0.81 0.29 0.67 0.82 0.18 0.98 0.75 0.54 0.96 0.22 0.28 0.04 0.20

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Reef	Balanced Accuracy		F1	Sensitivit	S pecificit	y Pos	Neg	AUC	AUC Lower	$_{ m Upper}$	Kappa	MCC	Detection	onDetectio	nPrevalence
	Accu-					Pred	Pred		CI	CI			Rate	Preva-	
	racy					Value	Value							lence	
Browse	0.76	0.53	0.12	1.00	0.52	0.06	1.00	0.76	0.70	0.82	0.06	0.18	0.03	0.50	0.03
Island															
Cocos	0.71	0.88	0.50	0.50	0.93	0.50	0.93	0.71	0.53	0.90	0.43	0.43	0.06	0.12	0.12
(Keel-															
ing)															
Is-															
lands															
Ningaloc	0.69	0.86	0.32	0.50	0.89	0.23	0.96	0.69	0.47	0.92	0.25	0.28	0.03	0.14	0.06
Reef															
Scott	0.69	0.64	0.34	0.75	0.63	0.22	0.95	0.69	0.61	0.77	0.19	0.25	0.09	0.42	0.12
Reef															

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		T	able 5: Degree Hea	ating Week Cor	nfusion Matrix				
		CCI D	HW	NOAA DHW					
Reef	Balanced	Sensitivity	Specificity	AUC	Balanced	Sensitivity	Specificity	AUC	
	Accuracy				Accuracy				
Browse	0.90	1.00	0.80	0.90	0.82	1.00	0.65	0.82	
Island									
Cocos	0.84	0.75	0.94	0.84	0.62	0.25	1.00	0.62	
(Keeling)									
Islands									
Ningaloo	0.57	0.25	0.90	0.57	0.57	0.25	0.90	0.57	
Reef									
Scott Reef	0.55	0.25	0.84	0.55	0.73	0.75	0.71	0.73	

Table 6: Degree Heating Month Confusion Matrix

		CCI D	HM		NOAA DHM					
Reef	Balanced	Sensitivity	Specificity	AUC	Balanced	Sensitivity	Specificity	AUC		
	Accuracy				Accuracy					
Browse	0.83	1.00	0.66	0.83	0.76	1.00	0.52	0.76		
Island										
Cocos	0.73	0.75	0.72	0.73	0.71	0.50	0.93	0.71		
(Keeling)										
Islands										
Ningaloo	0.75	0.67	0.82	0.75	0.69	0.50	0.89	0.69		
Reef										
Scott Reef	0.62	0.50	0.75	0.62	0.69	0.75	0.63	0.69		