15TH SESSION OF THE PACIFIC ISLANDS CLIMATE OUTLOOK & STAKEHOLDER FORUM

PIGOF-15

14 - 15 OCTOBER, 2024

HYBRID

IN-PERSON: NUKU'ALOFA, TONGA

ONLINE: ZOOM



























Outlook: Ocean temperature, Coral Bleaching and Sea level

Moleni Tu'uholoaki (SPC), Grant Smith (BoM) and John Marra (NOAA)

























Outline of Presentation

- WMO LRFMME SST
- SLA/Tides
- Coral Bleaching
- Fisheries convergence zone
- Key messages

















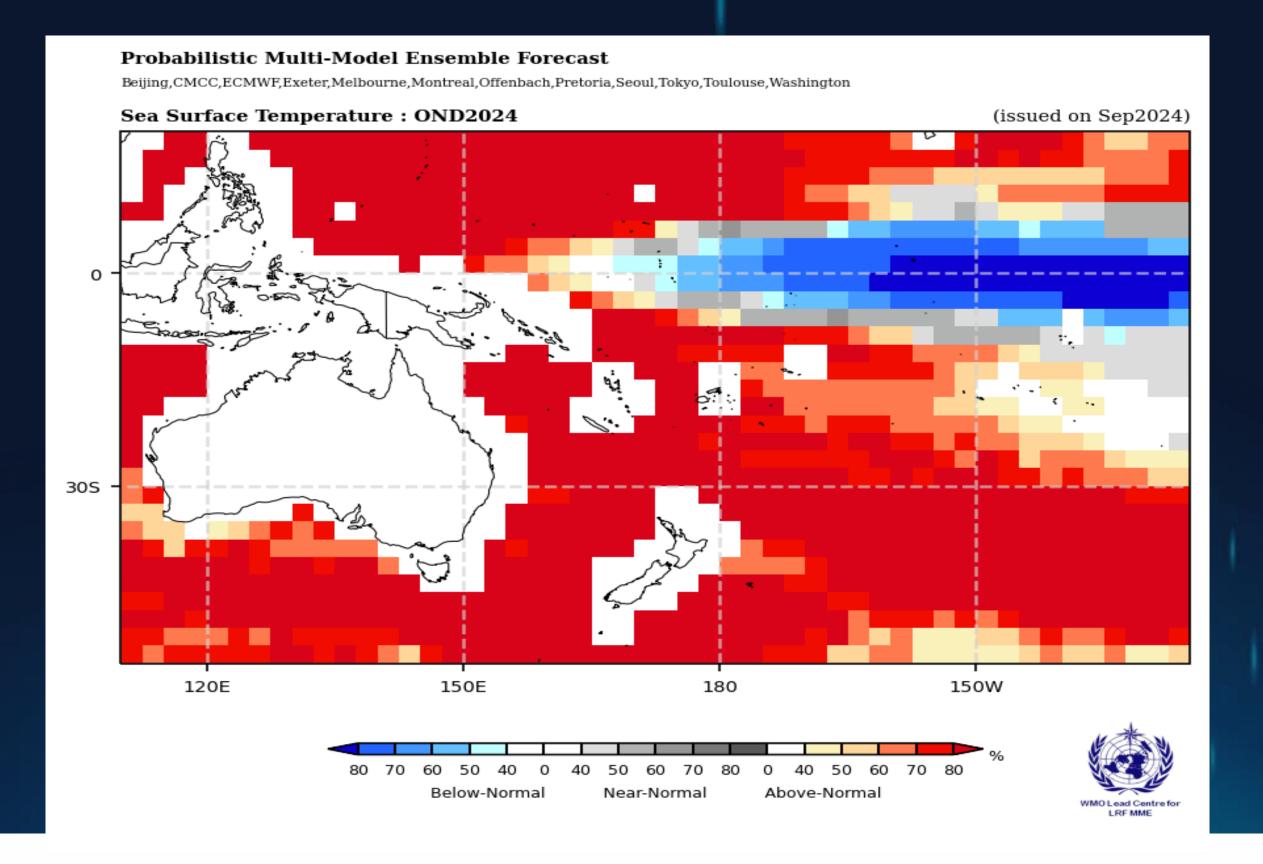








WMO-MME- 3 Month SST

















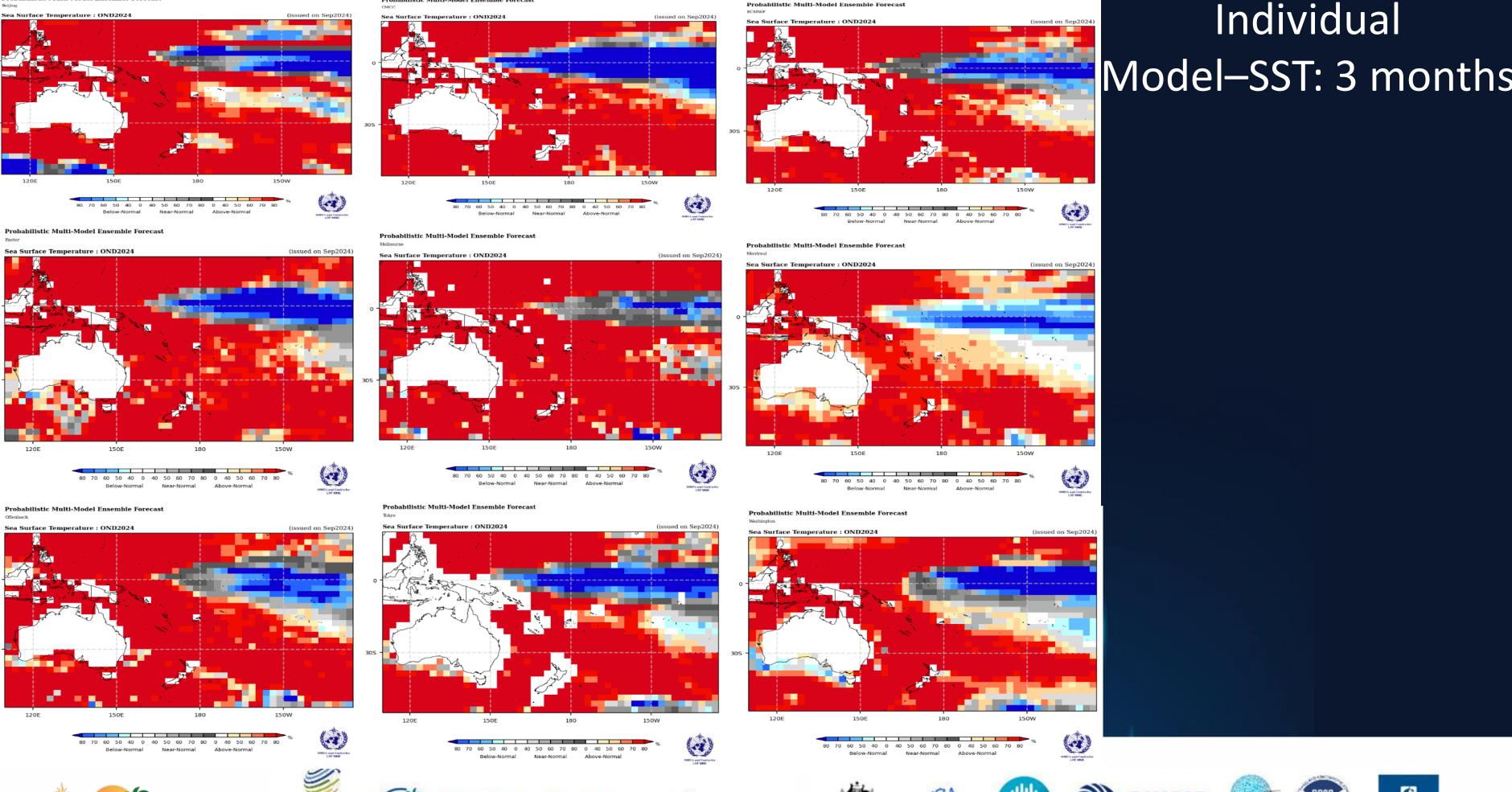






























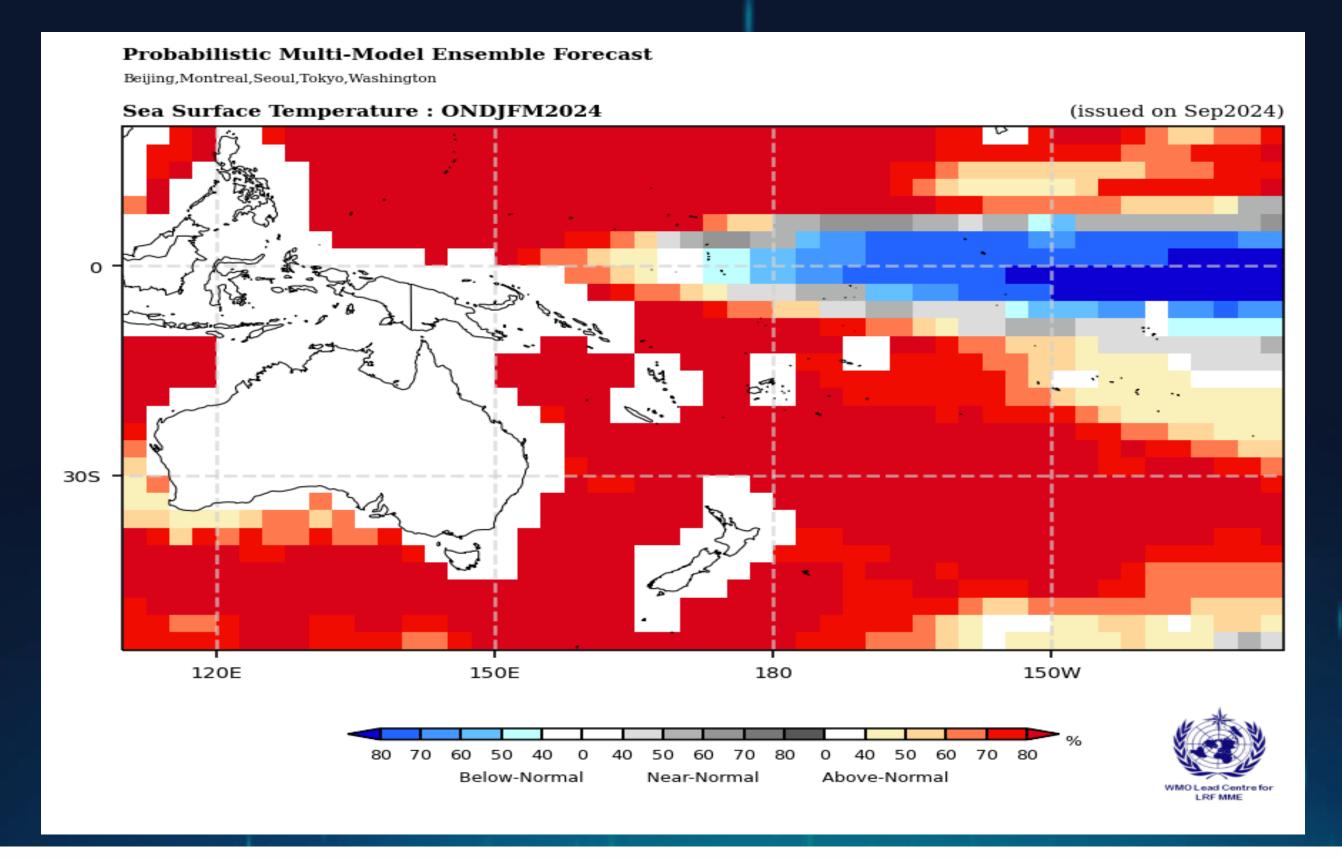




Individual



WMO-MME- 6 Month SST

















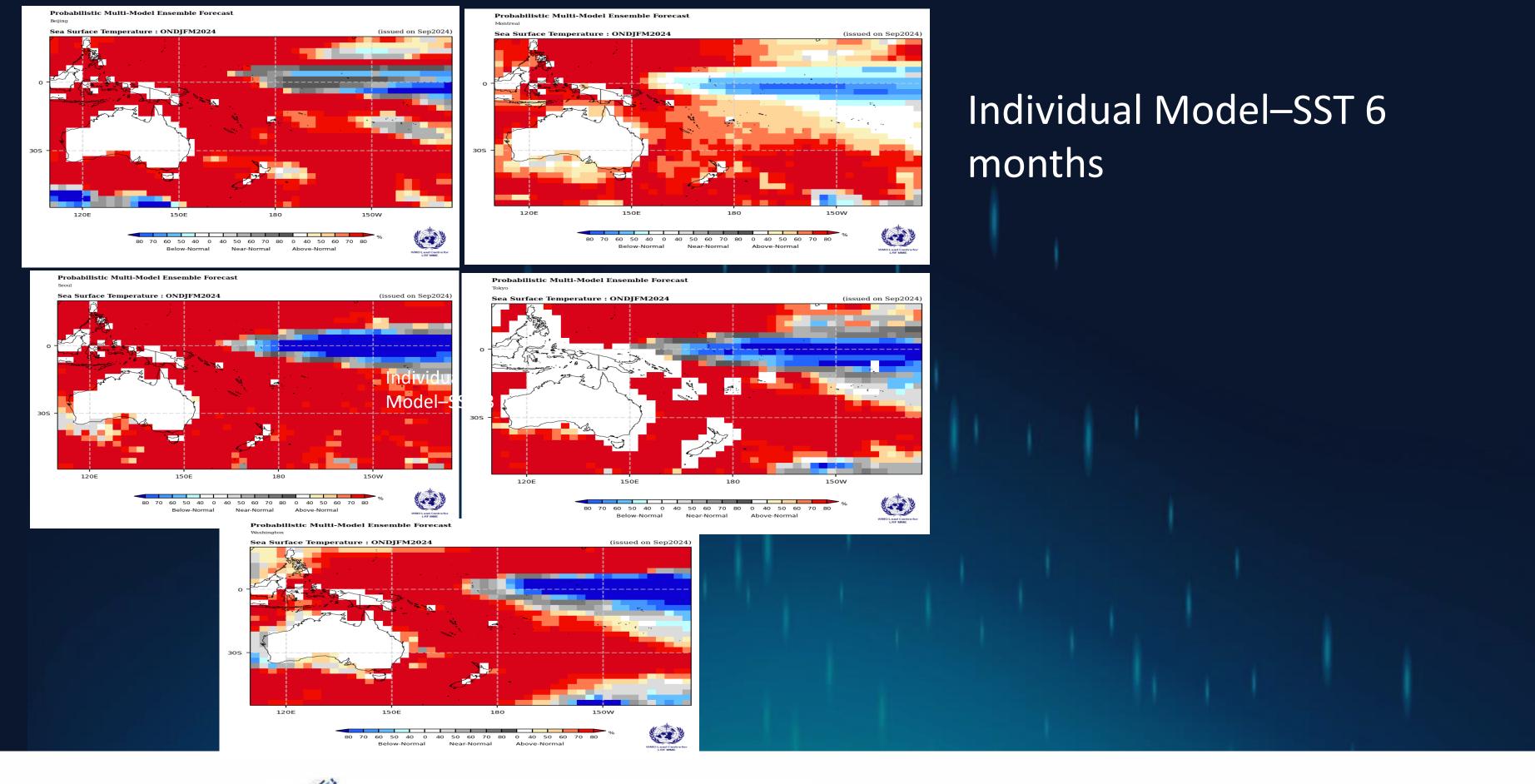




























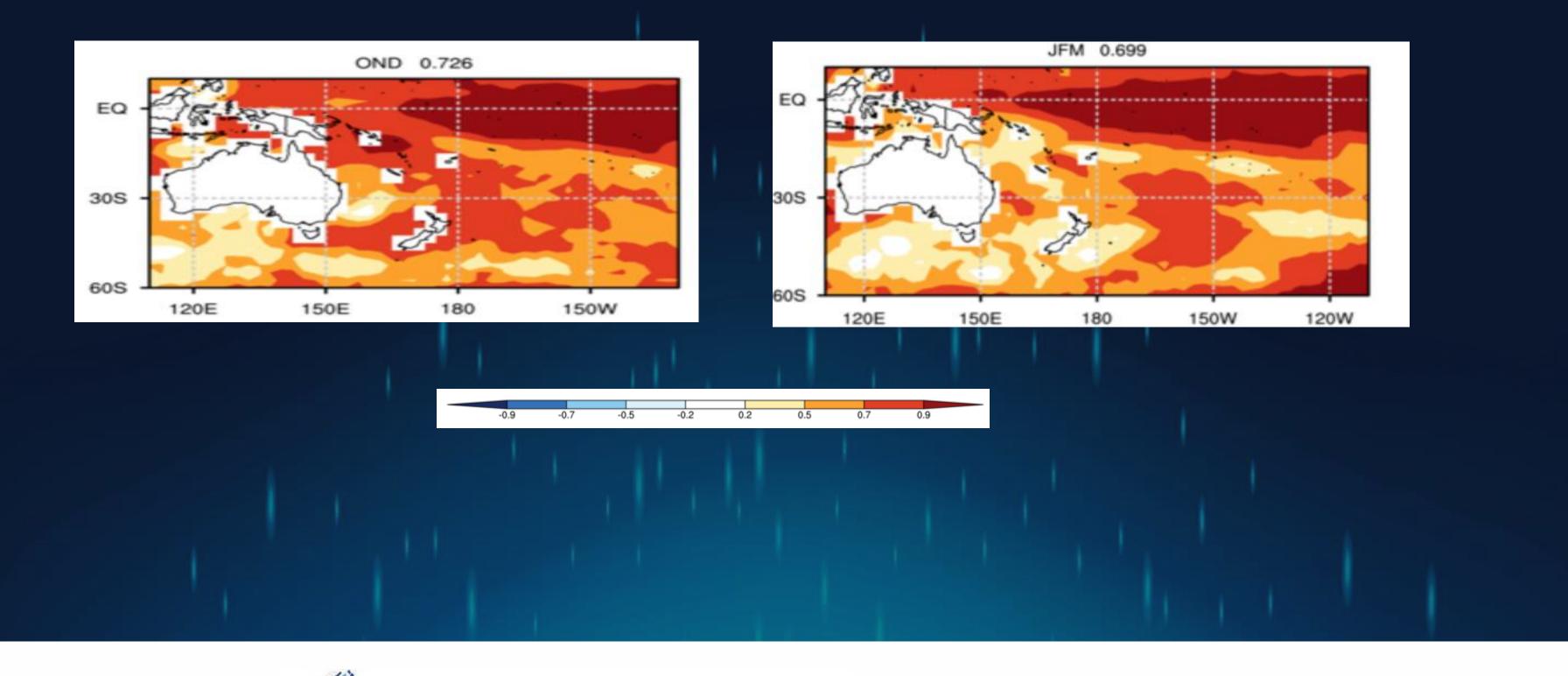








Skill



















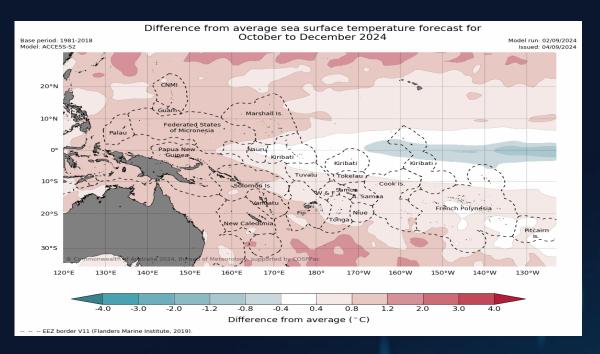


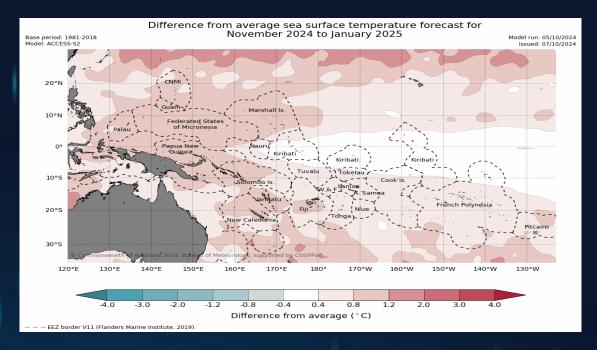




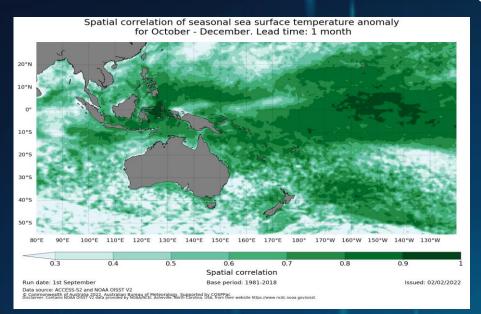


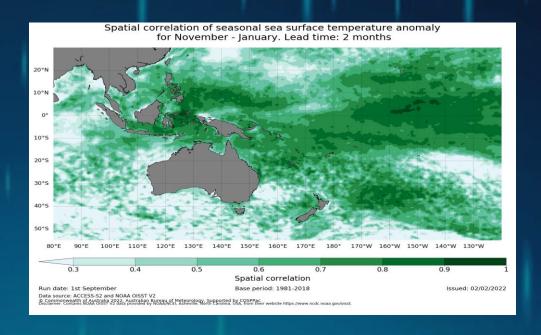
ACCESS-S: SST Anomalies





Skill





















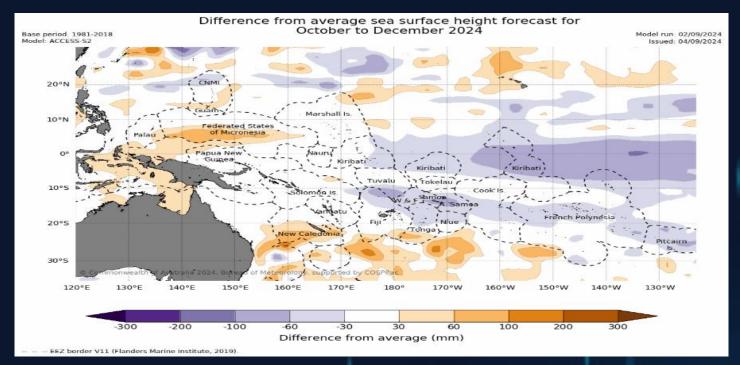


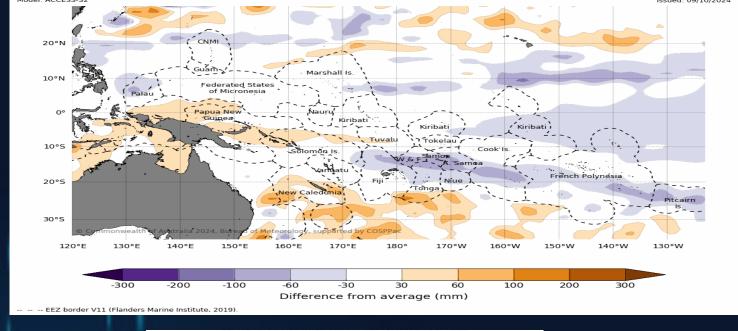






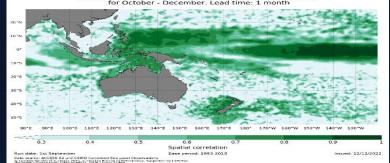
Sea Level Anomaly

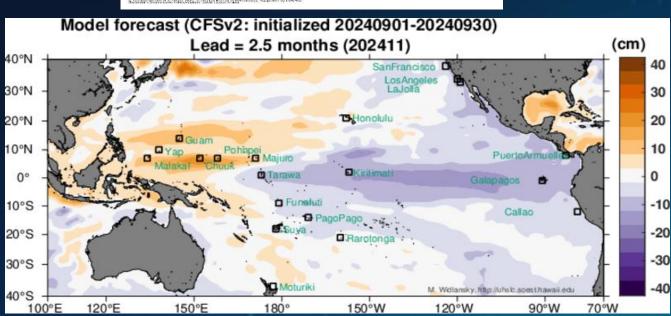


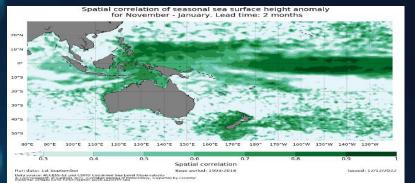


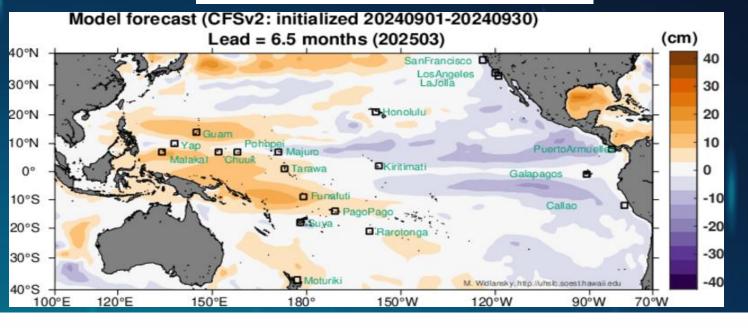
Difference from average sea surface height forecast for





































Highest Tides

Rarotonga, Cook Is

Honiara, Solomon Is

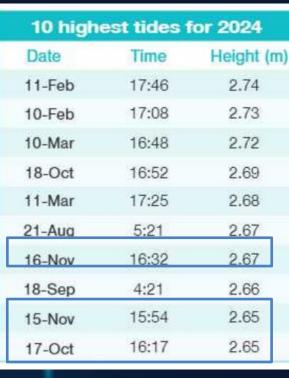
Lombrum, PNG

Nauru

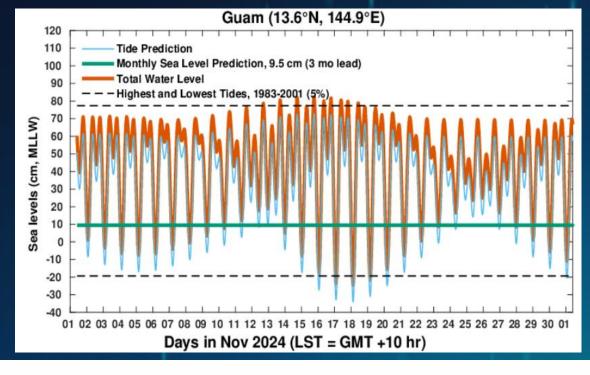
10 highest tides for 2024			
Date	Time	Height (m)	
13-Mar	12:04	1.15	
12-Mar	11:18	1.14	
14-Mar	12:49	1.13	
13-Feb	12:30	1.13	
14-Feb	13:15	1.13	
10-Apr	10:52	1.12	
11-Apr	11:38	1.12	
20-Sep	23:34	1.11	
19-Oct	23:09	1.11	
18-Oct	22:22	1.11	

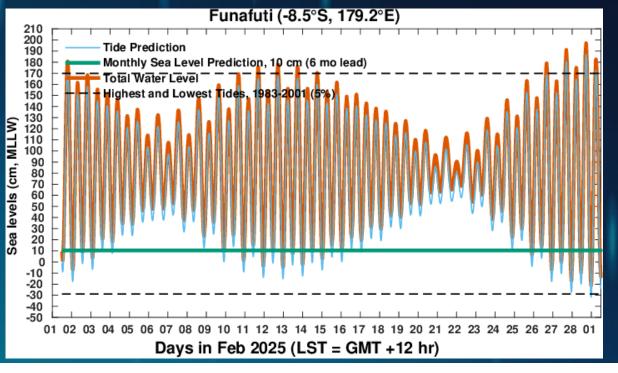
10 high	10 highest tides for 2024			
Date	Time	Height (m)		
16-Nov	15:30	1.71		
17-Nov	16:02	1.7		
10-Feb	16:14	1.7		
12-Jan	16:17	1.68		
13-Jan	16:58	1.67		
09-May	3:52	1.67		
11-Feb	16:51	1.67		
15-Nov	14:57	1.67		
19-Oct	16:27	1.66		
15-Dec	15:17	1.65		

ime Height (m) 5:15 1.28 5:51 1.27
5:51 1.27
5:29 1.27
4:48 1.27
4:40 1.26
5:14 1.24
5:17 1.24
4:57 1.24
4:06 1.24
4:11 1.23



UoH





















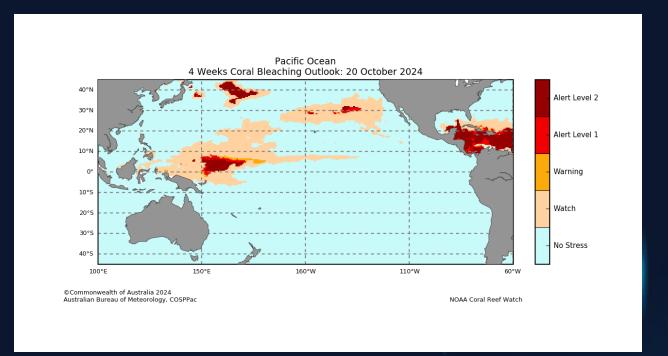


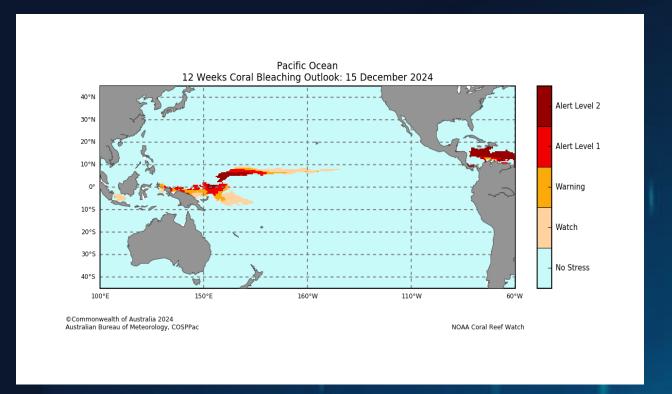


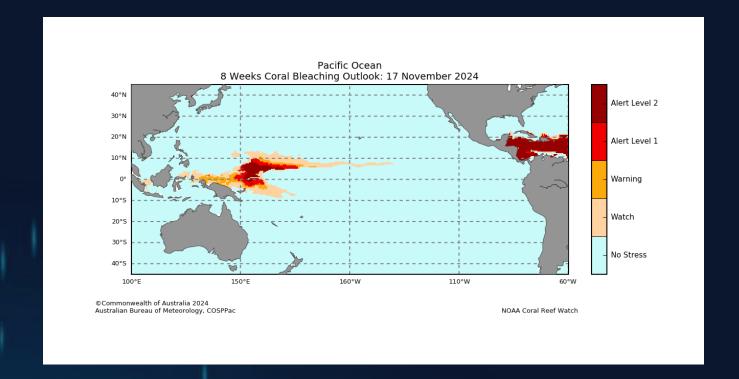




Coral Bleaching







Alert Level	Effect
No Data	No alert data available
No Stress	No thermal stress
Bleaching Watch	Low-level thermal stress
Bleaching Warning	Coral bleaching possible
Bleaching Alert Level 1	Coral bleaching likely
Bleaching Alert Level 2	Coral mortality likely



















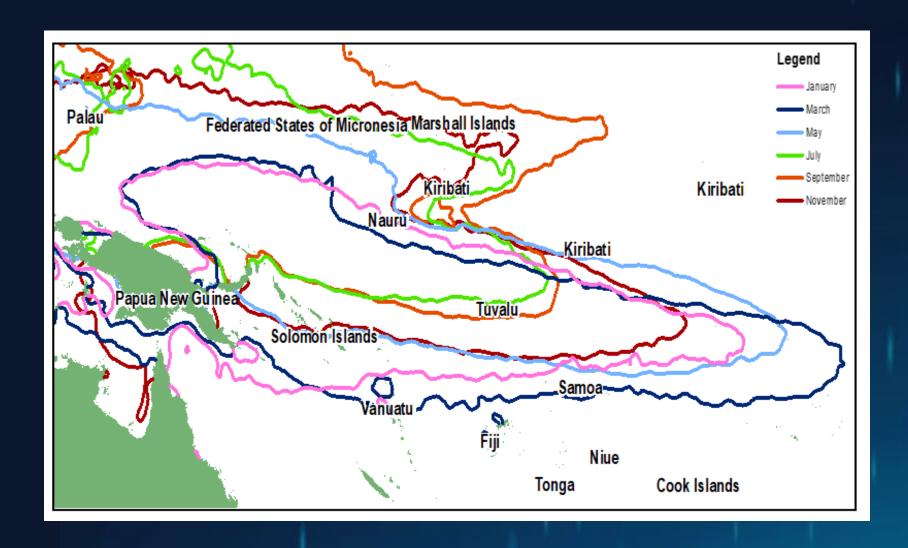


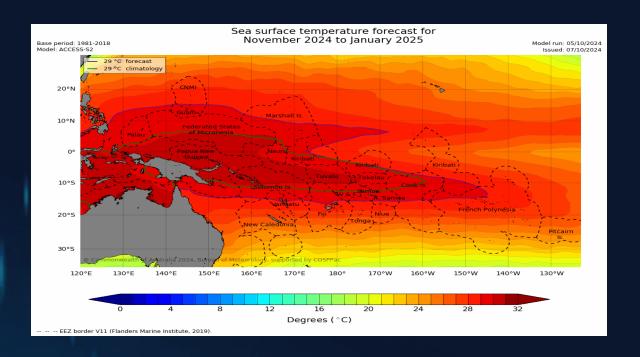


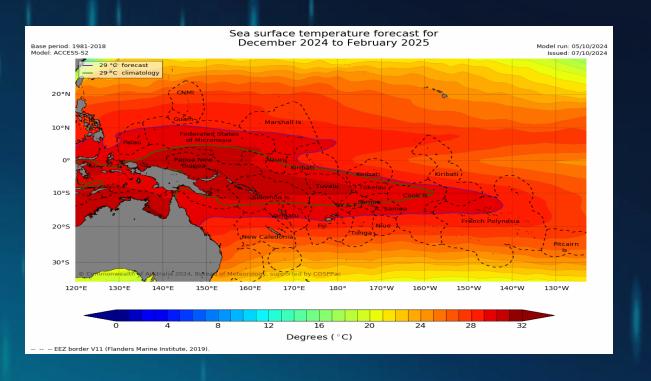




Fisheries Convergence zone































Summary-Key Messages

- Near-normal to above normal SST for most countries in the west, including COSPPac partner countries in the south. Cooler along the equator towards the east.
- Sea Level favoured to be below normal around Kiribati islands, southern part of Tuvalu, Samoa, northern Fiji, northern Tonga, Niue, part of Cook islands, part of French Polynesia and Pitcairn Islands.
 Near-normal to above normal for remainder.
- Countries to be aware of higher tides
- Coral Beaching on alert levels for PNG, FSM, RMI, Palau and Nauru
- Fisheries convergence zone slightly expands eastward

























