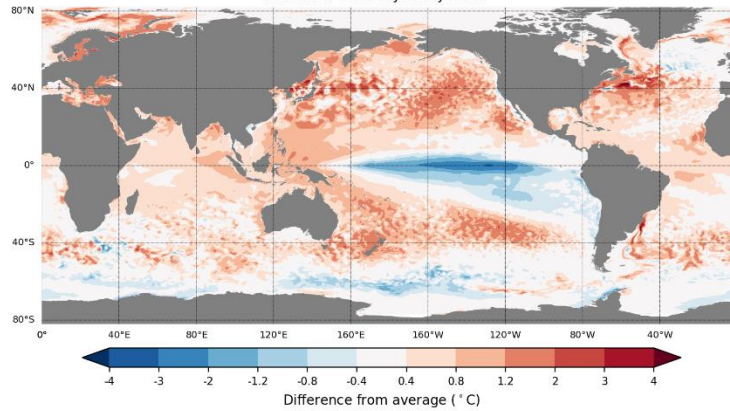


Ocean Conditions Outlook

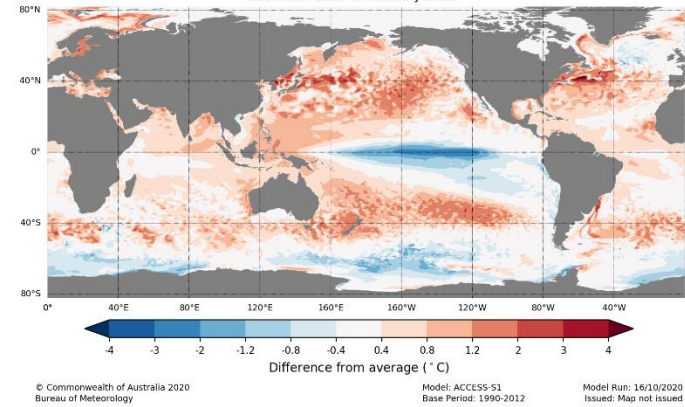
[Zulfikar Begg (SPC), John Marra
(NOAA) and Grant Smith (BoM)]

SST

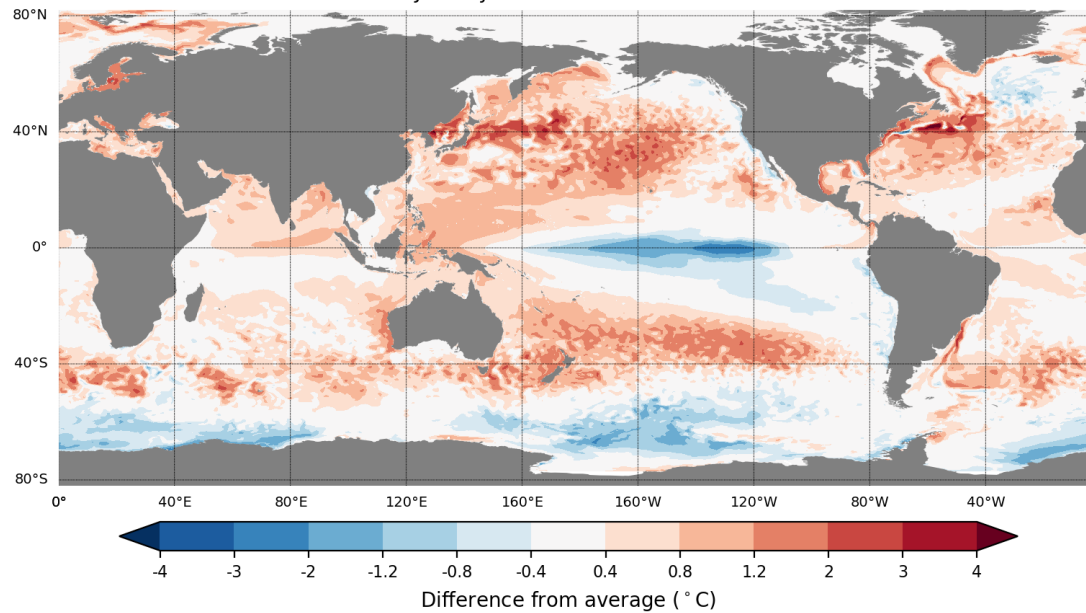
Sea surface temperature anomaly forecast for
November 2020 to January 2021



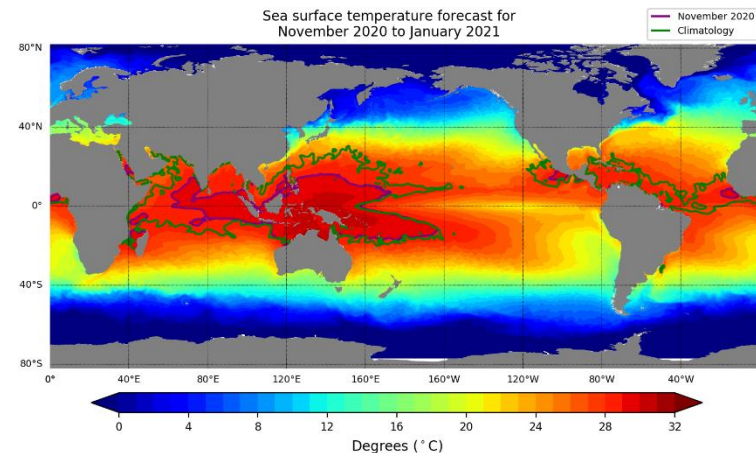
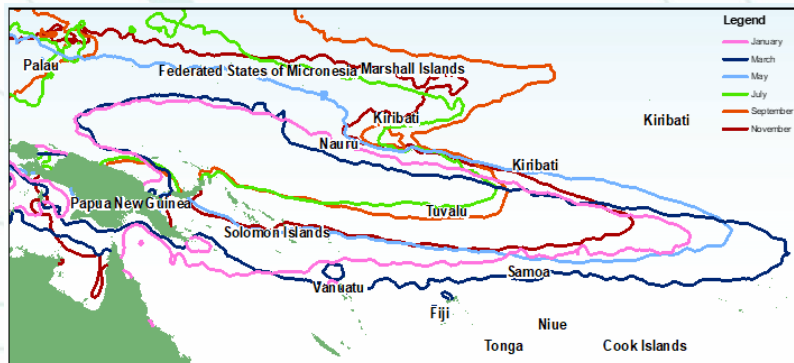
Sea surface temperature anomaly forecast for
December 2020 to February 2021



Sea surface temperature anomaly forecast for
January 2021 to March 2021



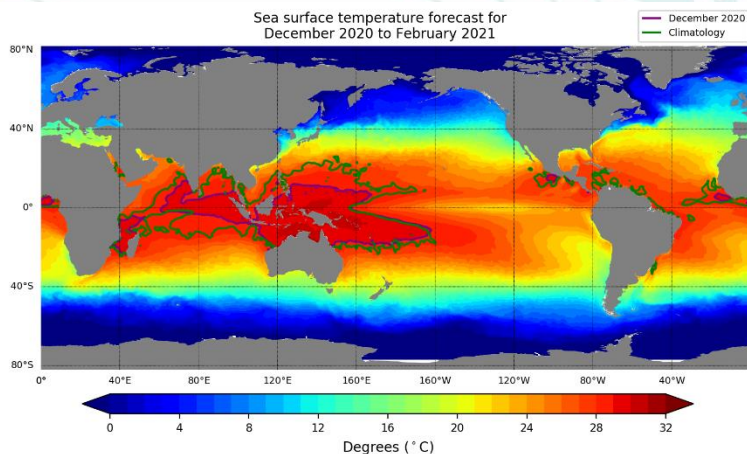
Fisheries Convergence zone



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Model: ACCESS-S1
Base Period: 1990-2012

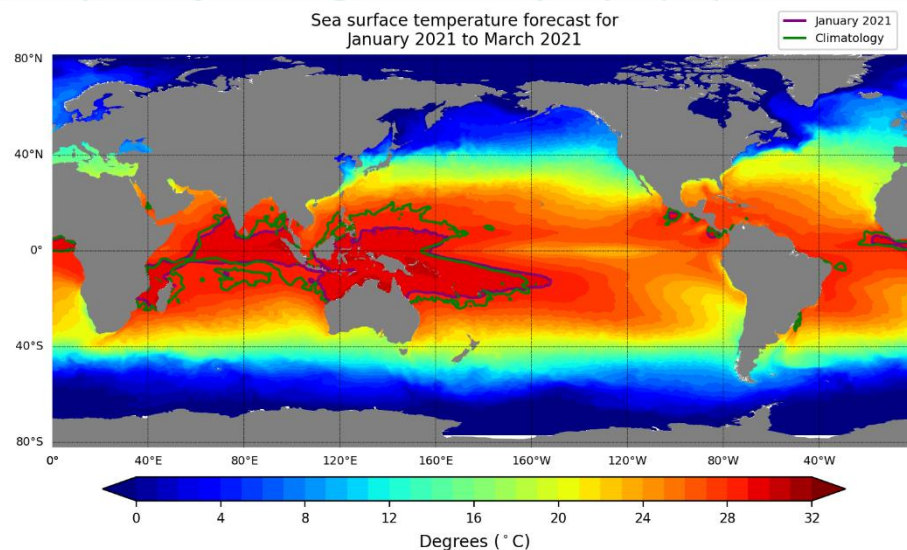
Model Run: 16/10/2020
Issued: Map not issued



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Model: ACCESS-S1
Base Period: 1990-2012

Model Run: 16/10/2020
Issued: Map not issued

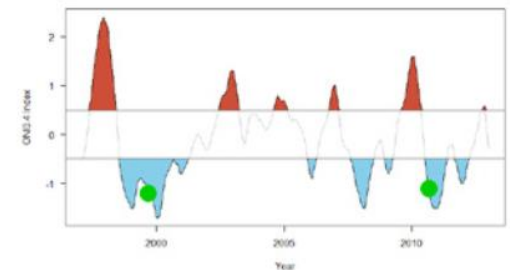
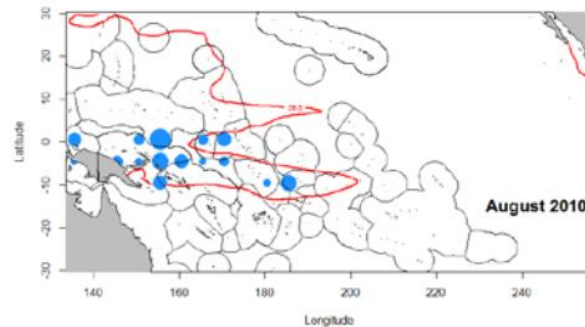
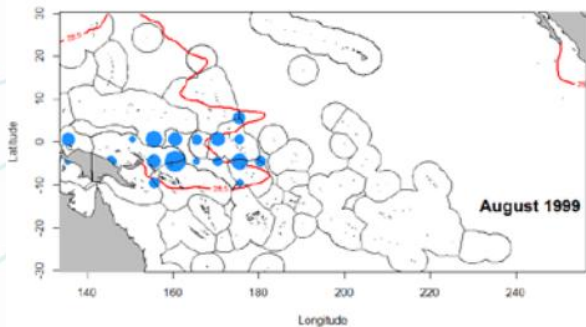
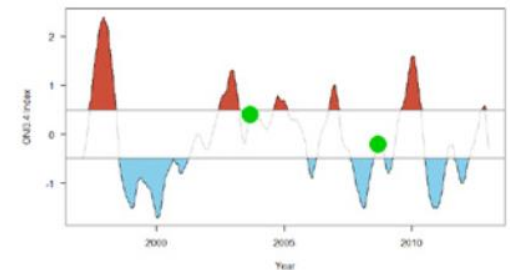
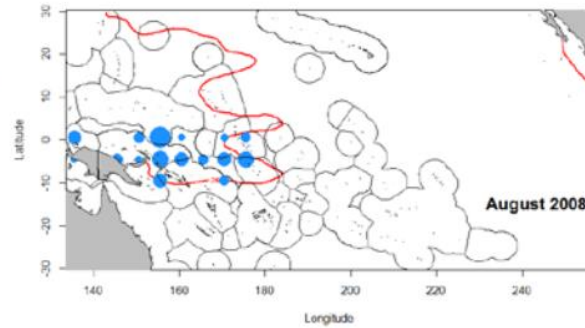
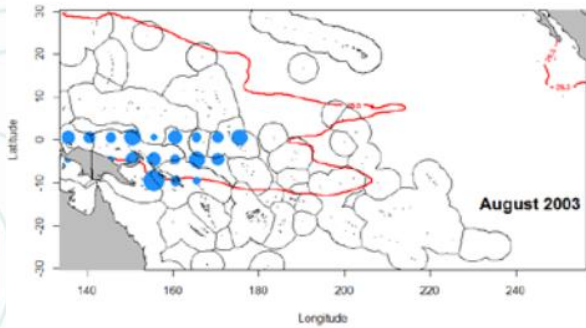
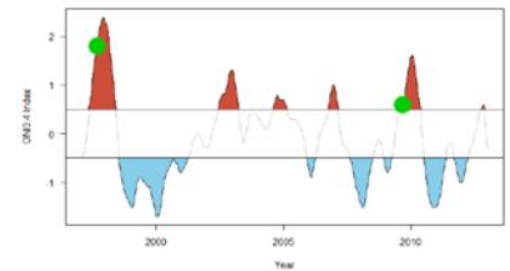
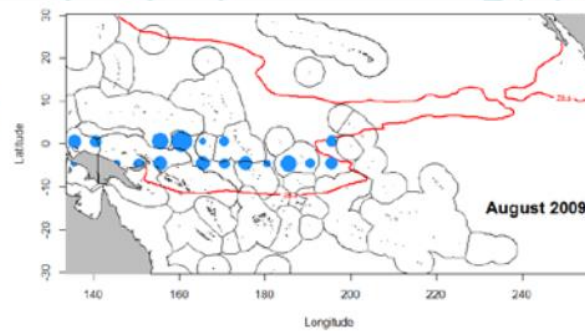
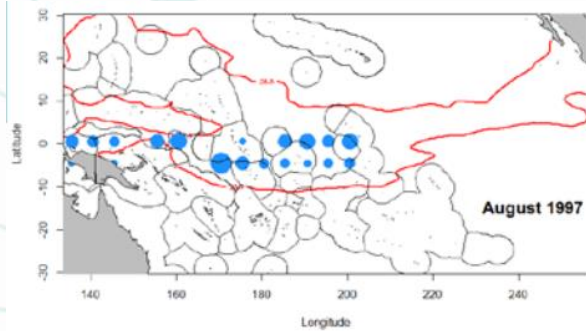


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Model: ACCESS-S1
Base Period: 1990-2012

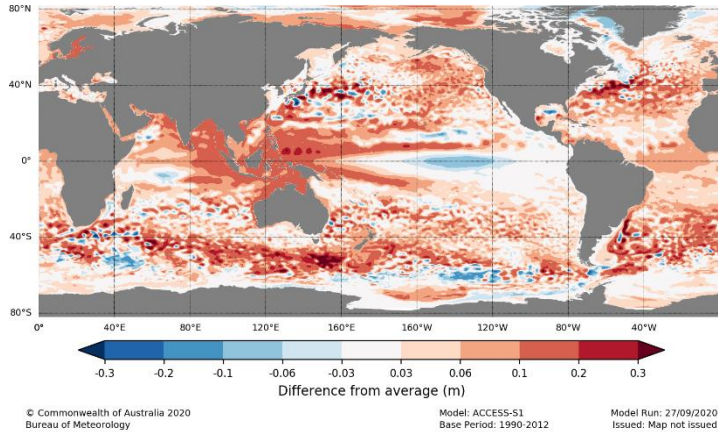
Model Run: 16/10/2020
Issued: Map not issued

SPC Tuna Factsheet

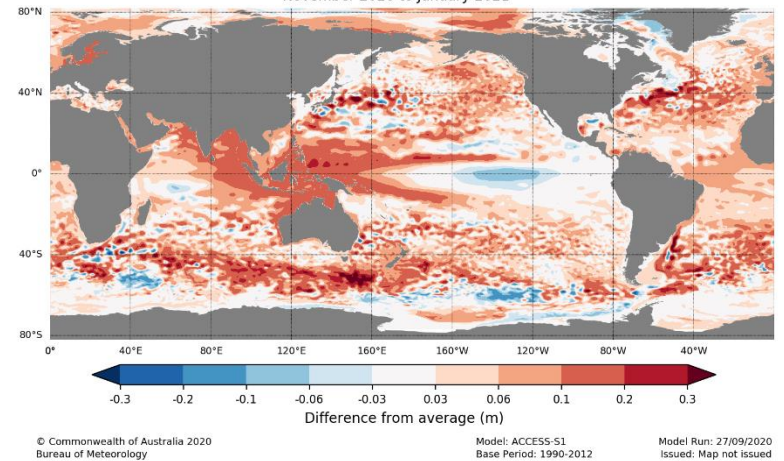


Sea level

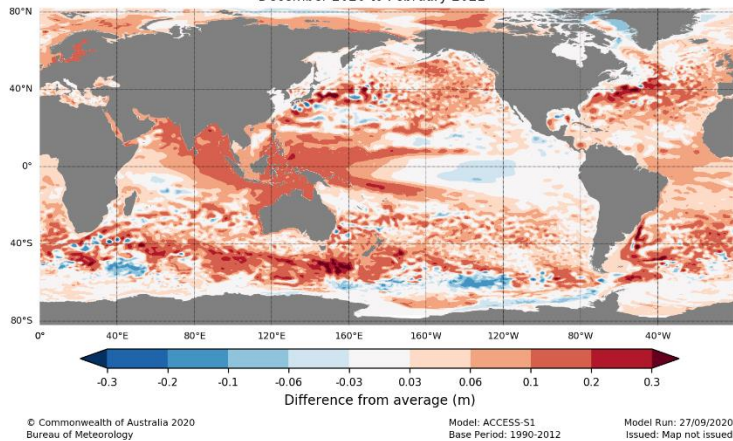
Difference from average sea surface height forecast for
October 2020 to December 2020



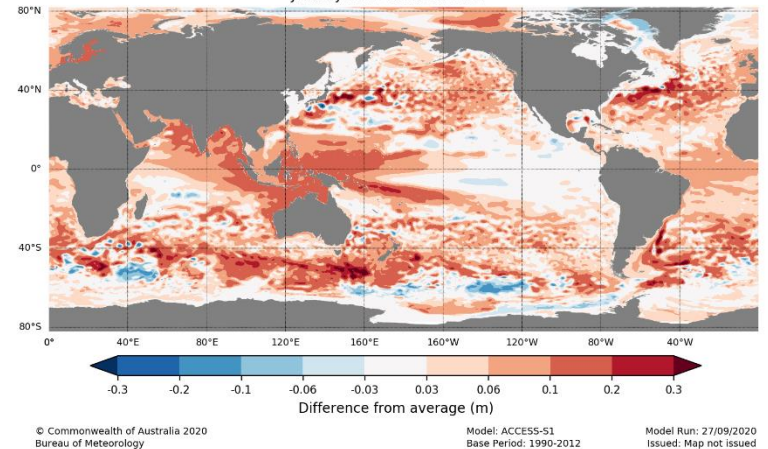
Difference from average sea surface height forecast for
November 2020 to January 2021



Difference from average sea surface height forecast for
December 2020 to February 2021



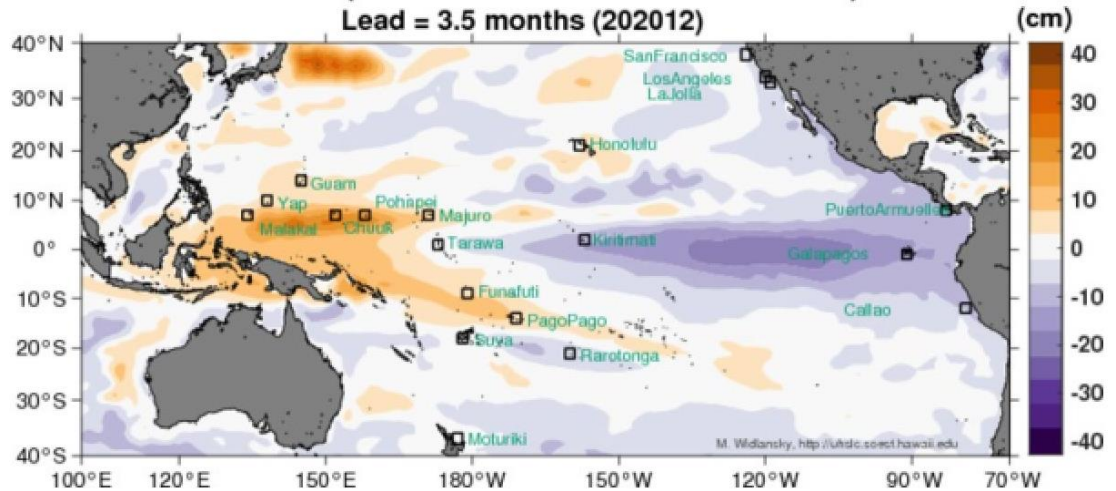
Difference from average sea surface height forecast for
January 2021 to March 2021



Sea level

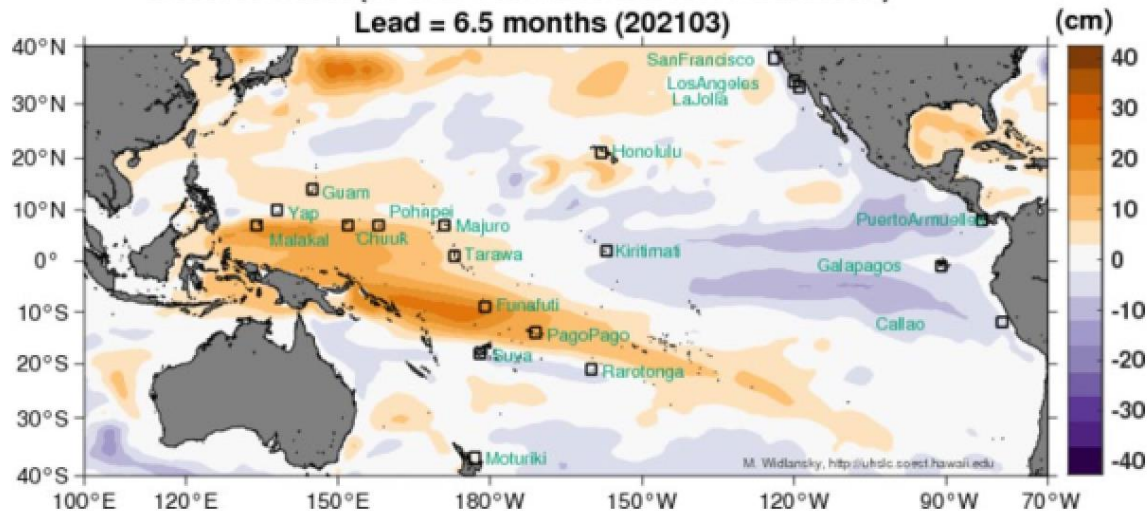
Model forecast (CFSv2: initialized 20200901-20200930)

Lead = 3.5 months (202103)



Model forecast (CFSv2: initialized 20200901-20200930)

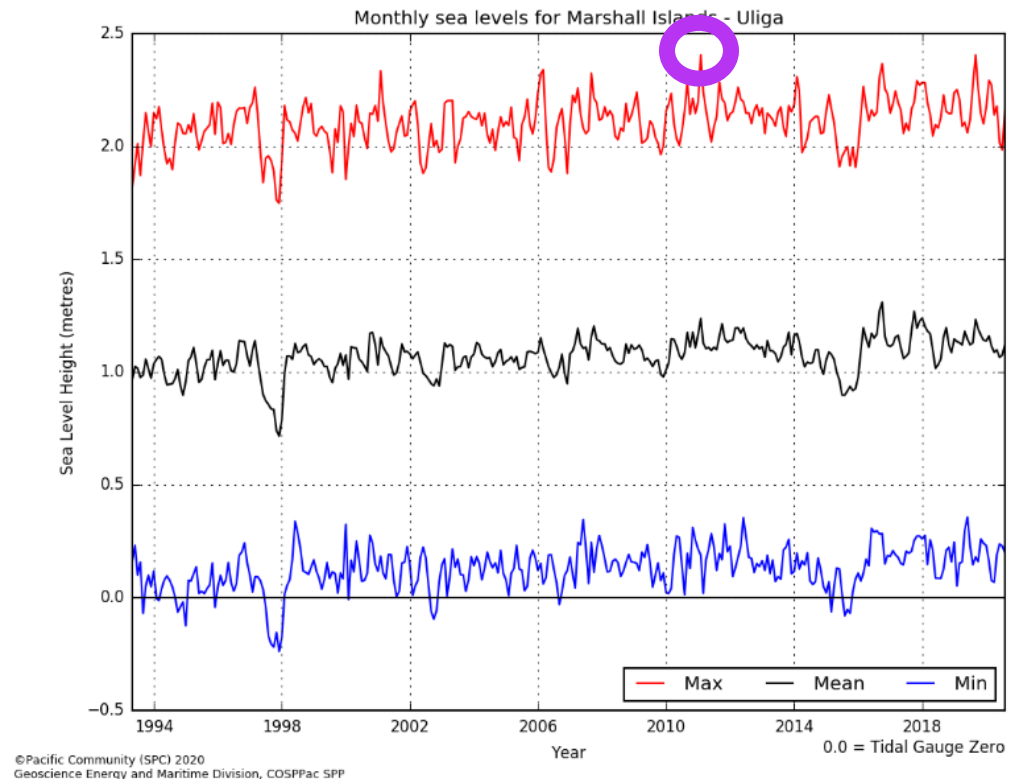
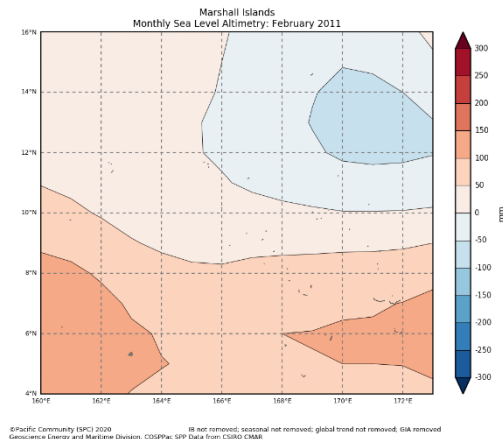
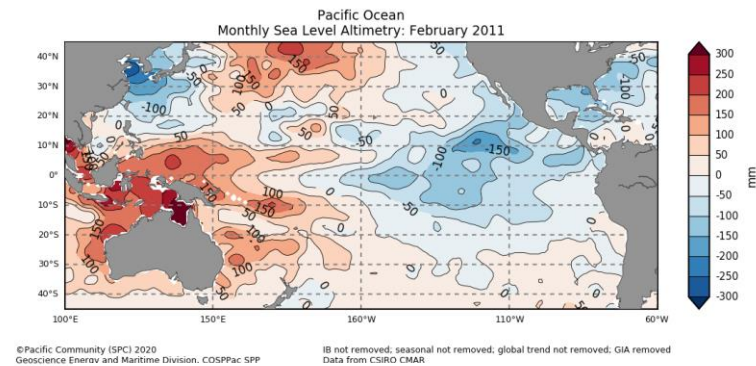
Lead = 6.5 months (202103)



Learning from the past...

La Niña event of 2011 Smith and Juria (2018)

Majuro experienced nuisance flooding with the highest ever tide gauge reading of 2.39m in February which was sufficient to cause overtopping in several places.



Highest Tides

Pohnpei Harbour

Majuro

Lombrum

10 highest tides for 2020

Date	Time	Height (m)
9-May	4:03	1.59
16-Nov	15:41	1.58
10-Feb	16:12	1.58
8-May	3:30	1.58
15-Dec	15:30	1.57
9-Feb	15:35	1.57
17-Nov	16:15	1.56
9-Mar	15:22	1.56
15-Nov	15:07	1.56
10-Mar	15:57	1.55

10 highest tides for 2021

Date	Time	Height (m)
29-Mar	17:00	2.21
28-Feb	17:22	2.20
28-Apr	4:55	2.19
28-Mar	16:24	2.18
1-Mar	17:57	2.18
5-Nov	16:28	2.17
6-Nov	17:06	2.17
30-Mar	5:17	2.16
29-Apr	5:33	2.16
27-Feb	16:47	2.16

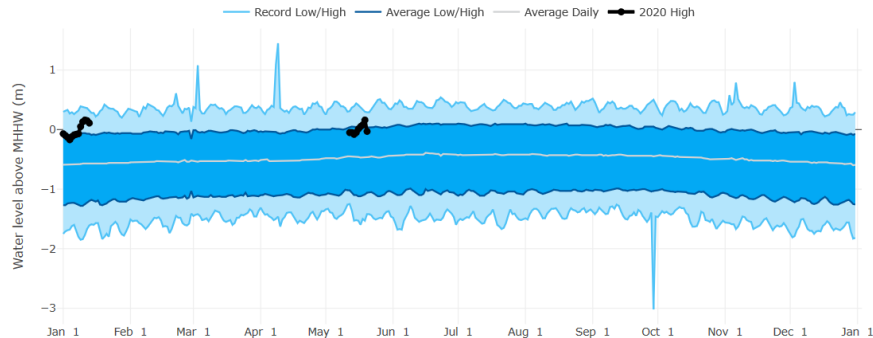
10 highest tides for 2021

Date	Time	Height (m)
5-Dec	15:44	1.24
4-Dec	15:34	1.23
31-Dec	14:36	1.23
6-Dec	15:26	1.22
11-Jan	15:00	1.22
12-Jan	15:21	1.22
10-Jan	14:40	1.21
13-Jan	15:38	1.20
24-Jun	3:19	1.20
3-Dec	15:22	1.20

10 highest tides for 2020

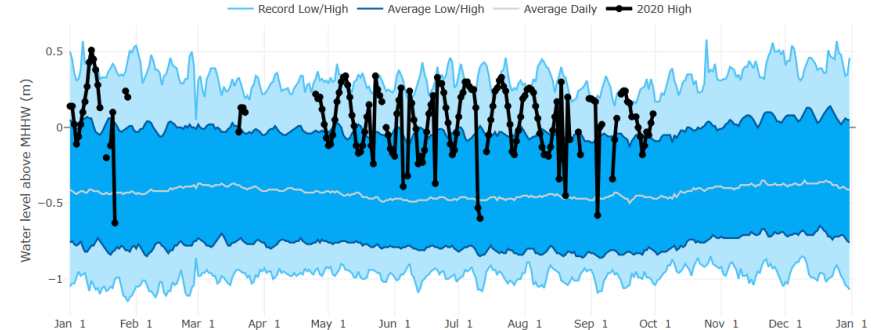
Date	Time	Height (m)
14-Dec	15:35	1.21
15-Dec	15:38	1.21
11-Jan	15:21	1.2
13-Dec	15:22	1.2
8-Feb	15:19	1.19
10-Jan	15:00	1.19
16-Dec	15:12	1.19
31-Dec	14:42	1.18
9-Feb	15:54	1.18
19-Nov	14:12	1.18

The epoch year range for **averaging** is: 1983 - 2001
The data year range for determining **records** is: 1969 - 2020



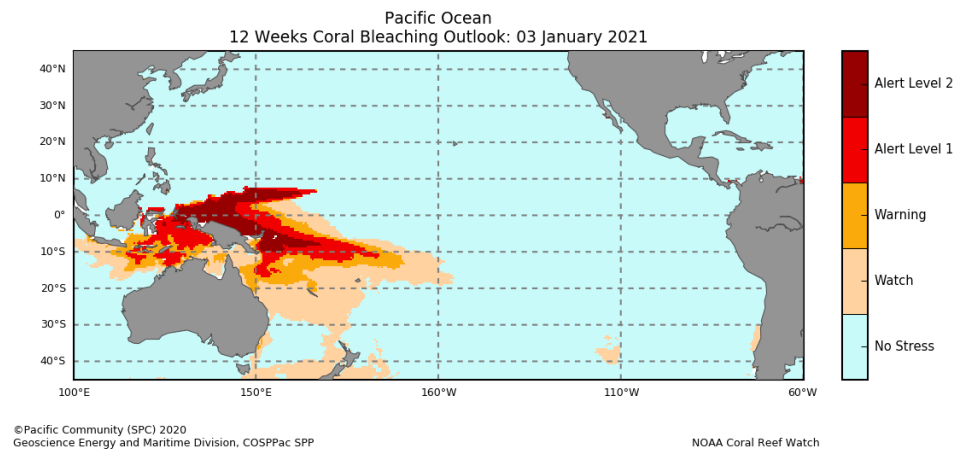
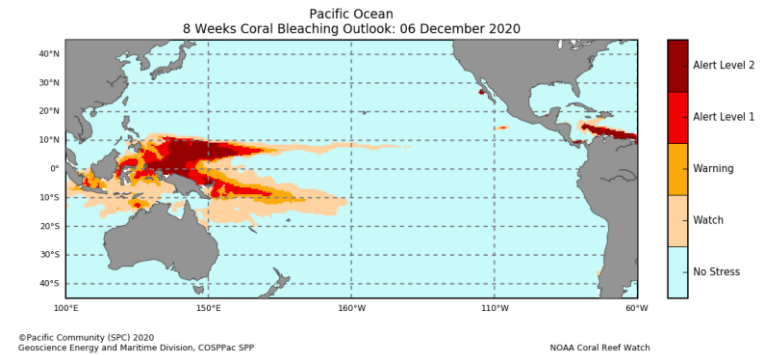
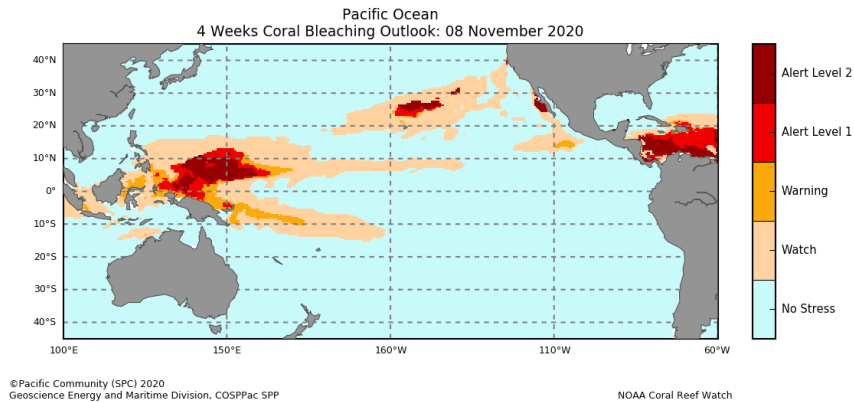
Yap

The epoch year range for **averaging** is: 1983 - 2001
The data year range for determining **records** is: 1978 - 2020



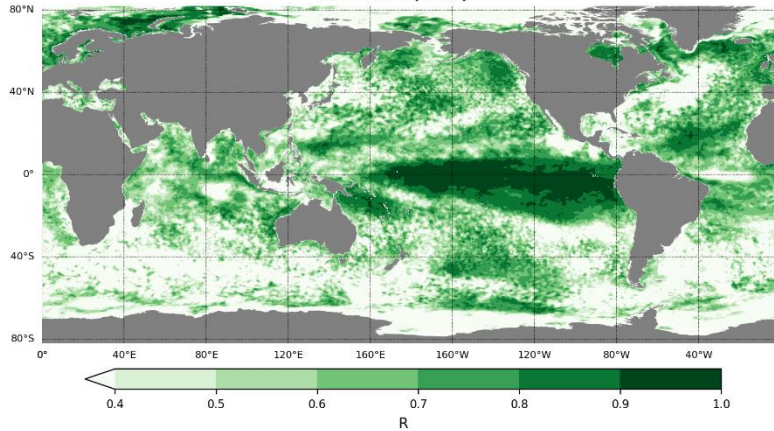
Kapingamarangi

Coral Bleaching



Skill Assessment

Sea surface temperature anomaly spatial correlation
November to January

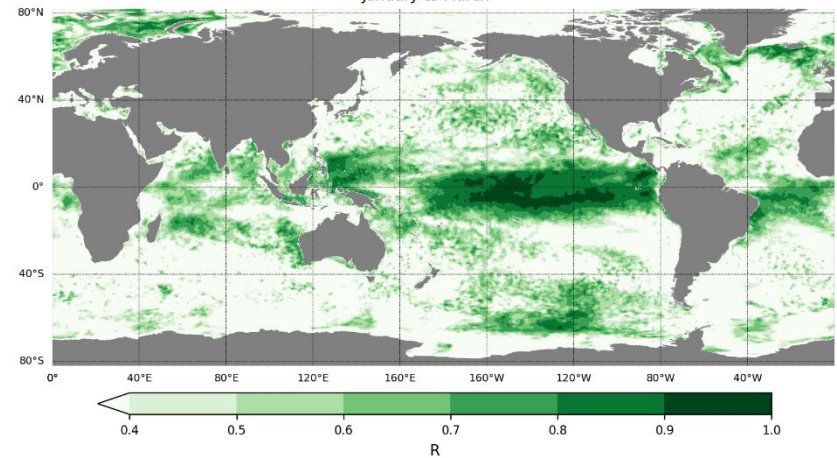


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Model: ACCESS-S1
Base Period: 1990-2012

Model Run: 17/10/2020
Issued: Map not issued

Sea surface temperature anomaly spatial correlation
January to March

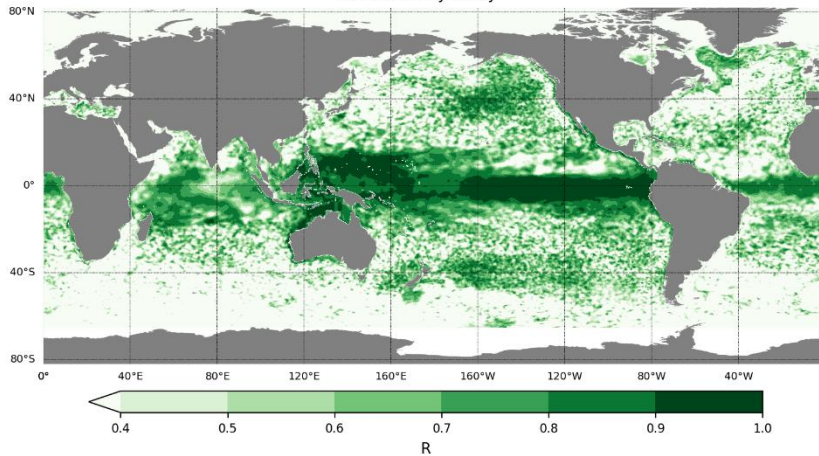


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Model: ACCESS-S1
Base Period: 1990-2012

Model Run: 17/10/2020
Issued: Map not issued

Difference from average sea surface height spatial correlation
November to January

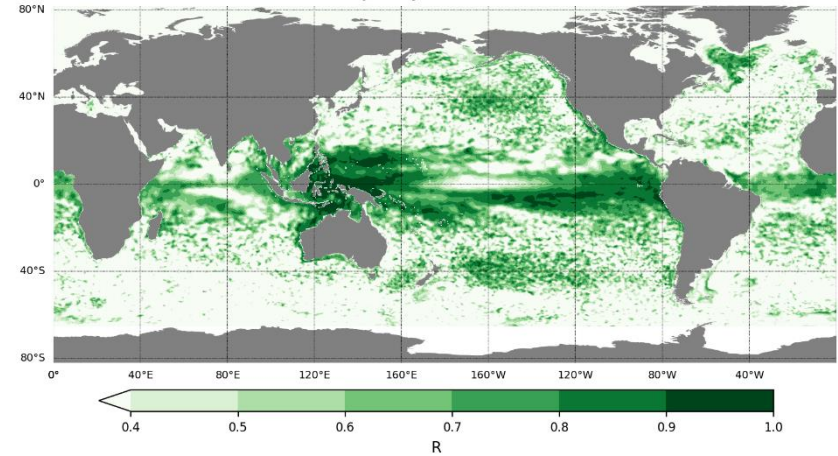


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Model: ACCESS-S1
Base Period: 1990-2012

Model Run: 25/09/2020
Issued: Map not issued

Difference from average sea surface height spatial correlation
January to March



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Model: ACCESS-S1
Base Period: 1990-2012

Model Run: 25/09/2020
Issued: Map not issued

The background features a complex pattern of thin, teal-colored wavy lines that resemble topographical contour lines or fluid flow paths. These lines are interspersed with small, solid teal circles and triangles, some of which are positioned along the lines, suggesting a vector field or a series of data points. The overall aesthetic is clean and modern, with a light teal color palette.

Thank you/vinaka