

EXPORTS NE Pacific Context Situational Awareness

Date: Thursday- July 19, 2018 - JD 200
Creators: Dave Siegel & Erik Fields

Weather Summary:

Tomorrow (7/20) will be cloudy and cool. 2hr of sun are forecasted. Winds are ~9kts from the SW. SWHs are ~0.9m with swell from the SW.

Oceanography Summary:

Ocean Color: No clear sky imagery at Station P - Last reasonable Chl image - July 3 - see below.

SST: Only merged SST imagery available (largely microwave) - Over the 10 degree domain, a W to E linear trend of increasing sst(~2.7C). In the NS along 145W the gradient is steep south of PAPA, increasing 4degC in 5deg lat. North of PAPA, the the gradient is small.. Coolest (<10C) features are ~200 km NW of StaP. Warmest features (>13C in the S and SE portion of the 10 degree domain. Mercator products show a more consistent NW to SE trend of increasing SST.

Sea Level: An anticyclonic feature (SLA ~3 cm above background) ~70 km S of StaP. All other features are pretty weak.

A larger / stronger anticyclonic feature (SLA ~14 cm; D~100 km) observed near 50N 140E. 60 km in scale.

Currents: Surface currents at StaP are to the NE at 10 km/ d (Mercator), ~5km/d to the NE according to altimetry. Mercator currents at 95 m at StaP are NNE at 10 km/d.

Weather forecast details

Date	Wind(kn)	Tair(C)	SWH(m)	Clouds(%)	Precip(“)	URL	predictability
Fri 7/20	9SW	14	0.9SW	87	--	july20 forecast URL	high
Sat 7/21	15S	14	0.9SW	100	--	july21 forecast URL	high
Sun 7/22	16S	14	0.9SW	100	--	july22 forecast URL	very low
Mon 7/23	17SW	14	1.0WSW	100	0.1-0.2	july23 forecast URL	very low
Tue 7/24	14SW	13	1.1WSW	93	0.2-0.4	july24 forecast URL	medium

Comparison of weather forecasts at Station P of 7 different model runs - [6 day forecast model comparison](#)

PMEL mooring

Last week of hourly air temp, wind, current, sss,sst - [PMEL stack time series plot](#)

Satellite Imagery:

Last good Chl image: July 3 - JD 184 - Aqua - [URL](#) corresponding [sst](#)

Microwave SST: [URL 10 deg](#) & [URL 5 deg](#)

Merged Satellite Altimetry:

Absolute Sea Level & Geostrophic Velocity - [10 degree box](#) & [5 degree box](#)

Sea level anom & anom currents - [10 degree box](#) & [5 degree box](#)

Mercator Ocean Products:

Surface currents, SST & SSH: [10 degree](#) & [5 degree](#)

95 m currents & salinity: [10 degree](#) & [5 degree](#)

Link to Situational Awareness data stockpiled for today on the google drive [sitAware for 2017-07-19](#)

Platform positions [graphic](#) and [text](#)