



CLIMATE ALERT BULLETIN (BAC)

CPPS

SUMMARIZED VERSION

AUGUST 2008

BAC 215

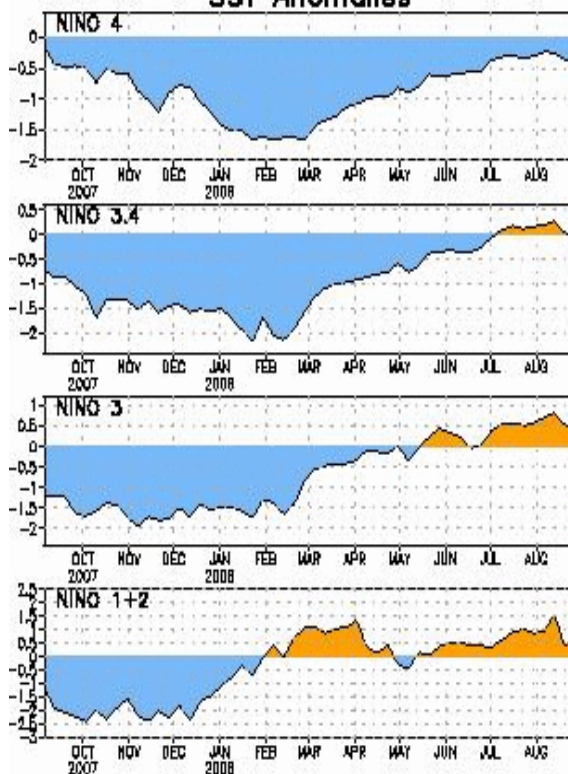
The Equatorial Pacific Ocean during August presented a deceleration of the heating of waters, showing in this occasion a light increased of the area with negative anomaly of $-1, 0^{\circ}\text{C}$, in centre of the equatorial Pacific region. Towards the Eastern edge of the Pacific the positive anomalies continued present, being at surface of until 1°C , and showing slight tendency to reduce these values.

The anomaly of the Sea Surface Temperature during the last week of August in the "El Niño" regions presented the following values; in the region of the Western Pacific ("El Niño" Region 4) it was of $-0, 4^{\circ}\text{C}$; in the Central Pacific ("El Niño" Region 3, 4) the anomaly was of $-0, 1^{\circ}\text{C}$ and; in the region of the Eastern Pacific (El Niño" Region 1+2) it was of $0, 7^{\circ}\text{C}$.

At Subsurface the thermal structure in the Central Equatorial Pacific clearly shows to a reduction or deceleration of the process of heating observed during the previous months, being now evident the location of a water cell with negative anomaly of -1°C , located between 140°W and the line of date and from the surface to the 100 ms of depth, reactivating slightly the cooling in this part of the Pacific.

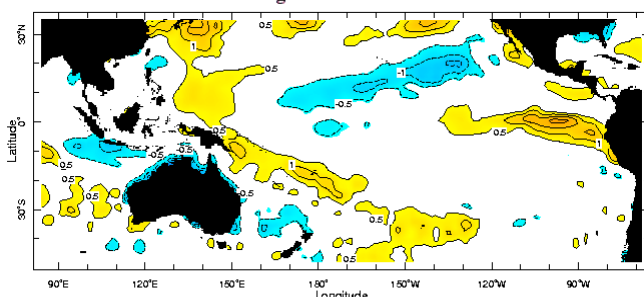
During this month the Mean Sea Level in the South-eastern Pacific presented a tendency to oscillate around its normal patterns. In front of Ecuador's coast the Level of the Sea continued presenting positive anomalies between 5 and 8 cm. In the Peruvian coast it continued presenting positive anomalies that fluctuated between $+3, 0$ cm and $+9, 0$ cm. In Chile the behaviour of the level of the sea, unlike the observed thing in July, presented one slight negative tendency, being considered this diminution like within the normal conditions, since the values of anomaly did not surpass the -8 cm. The South Oscillation Index stayed in its positive phase by third consecutive month and in this occasion the value was of 0.8. The central axis of the Intertropical Convergence Zone in the Eastern sector of the Pacific was located between 7 and 10° of North latitude with regulating convective activity; during two last days of the month the passage of a tropical wave of the East interacted with the Intertropical Convergence Zone, generating precipitation on Colombia.

SST Anomalies



**SEA SURFACE TEMPERATURE ANOMALIES
FOR THE NIÑO REGIONS**

**Anomía de la Temperatura Superficial del Mar ($^{\circ}\text{C}$)
Agosto 2008**



Aug 2008

**SEA SURFACE TEMPERATURE
ANOMALIES, AUGUST 2008**

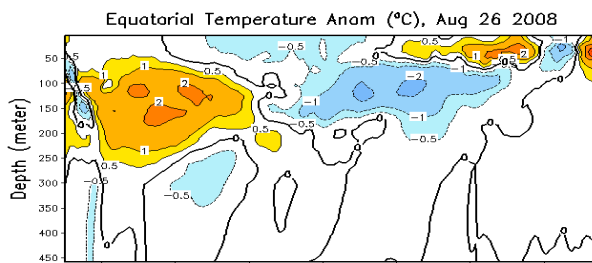
As far as the South-eastern Pacific they appeared predominantly of the south and south-east; as far as the speeds generally they appeared fluctuating around or slightly on the average value for the month.

Taking into account the present thermal behaviour from the Equatorial Pacific Ocean, as well as showing of several models of numerical simulation are anticipated that during the next month the Sea Surface Temperature in the Eastern sector of the Equatorial Pacific will continue slightly on its normal value.



The subsurface thermal structure of the Central Equatorial Pacific maintains the water cell with negative anomaly of $-1, 0^{\circ}\text{C}$, having increased its size during the month, reaching from the surface to the depth of 100m and between 170°E and 150°W approximately. In the Eastern edge of the Equatorial Pacific, to the east of 100°W and near the surface, it continues persisting a warm nucleus with anomaly of $2, 0^{\circ}\text{C}$.

The Mean Sea Level (MSL - NMM) in the Southeastern Pacific during August presented certain tendency to distribute around its normal patterns; in front of Ecuador's coast the Level of the Sea continued presenting positive anomalies between 5 and 8 cm, also in the Peruvian coast it continued presenting positive anomalies that fluctuated between $+3, 0$ cm and $+9, 0$ cm. In Chile behaviour of the level of the sea, unlike the observed in July, presented slight negative tendency, being considered this diminution like within the normal since the values of anomaly did not surpass the -8 cm. The Index of Oscillation of the South (IOS) like in the previous month, it continued in his positive phase by third consecutive month but with greater magnitude, reaching the value of 0, 8. The stations of Tahiti and Darwin respectively showed positive anomalies of pressure of 0, 9 and 2, 2. The central axis of the Intertropical Convergence Zone (ITCZ) appeared in the Eastern sector of the Pacific between 7 and 10°N with significant convective activity, interacting with tropical waves of the East, with affectation to Colombia.



SUBSURFICIAL TEMPERATURE ANOMALIES
AUGUST 2008

Perspective for the next weeks

GLOBAL

Taking into account present predictions from several numerical models, as well as behaviour of the main oceanic and atmospheric indicators, is anticipated that during next month to a large extent of Eastern Equatorial Pacific positive anomalies of SST will continue present, although hopes that they remain certain areas of the Central and Western Pacific with negative anomalies.

REGIONAL

In agreement with the pursuit of ocean-atmospheric conditions in the Southeastern Pacific Ocean, executed by Program ERFEN (integrated by National Committees ERFEN of Chile, Colombia, Ecuador and Peru), and coordinated by the CPPS, it is not anticipated for the next month great changes in the superficial thermal structure in the sector of the Eastern Pacific, hoping that Ait Temperature as SST appear slightly on their average value of the month, with tendency to reduce values of positive anomaly.

Institutions that collaborate in this bulletin:



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