



# CLIMATE ALERT BULLETIN (BAC)

**CPPS**

**AUGUST 2007**

**BAC 203**

**SUMMARIZED VERSION**

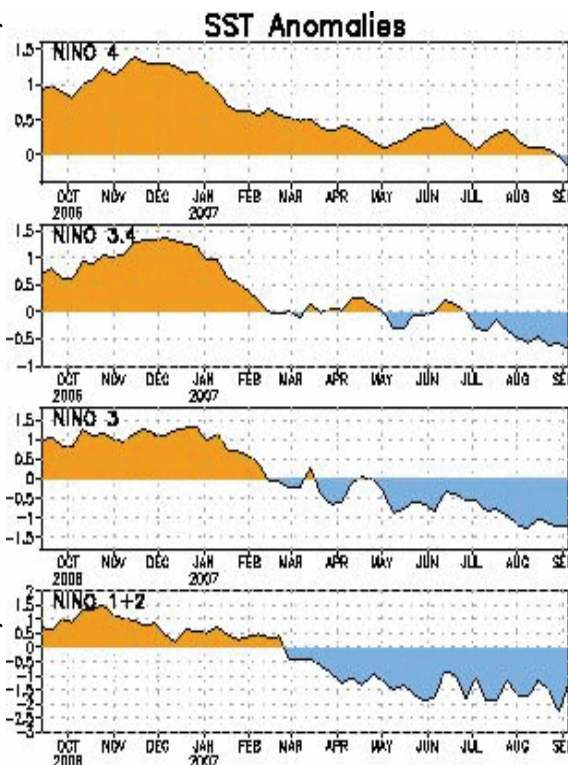
August characterized by the reactivation of the observed cooling previous weeks in all “El Niño” regions; being more well-known in the sector of the Equatorial Pacific from the Eastern edge to 160°W approximately.

The temperature of the sea during the last week of August exhibited anomalies of 0,0°C in the Western Pacific, -1,2°C for the Central Pacific and of -2,3°C in the Eastern Pacific, staying the condition of neutrality for the Equatorial Pacific with noticeable tendency towards cold conditions.

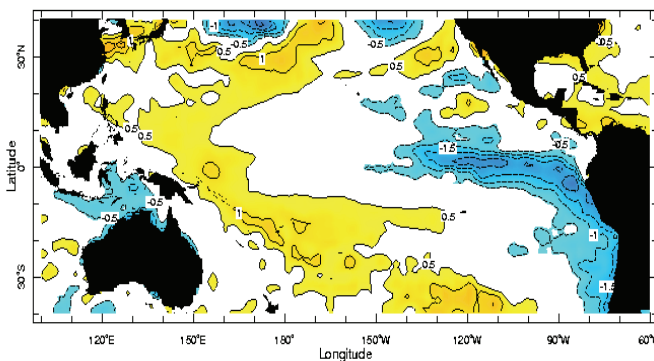
In relation to surface winds, the winds of the south and Southeaster with speeds superior to the normal rank for the date, between 1.0 to 2.2 m/s, predominated in the region of the Southeaster Pacific.

The Index of Oscillation of the South, after remaining by a brief period (the previous month) in the negative phase, in August happened slightly to positive values with 0,1.

During this month the Mean Sea Level in the Southeaster Pacific, was characterized to fluctuate closely together in the coasts of Ecuador and Peru of its normal patterns for the month with slight variations; in Chile the negative anomalies stay mainly, with fluctuations between -2,8 cm (Arica) and -16,3 cm (Talcahuano).



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



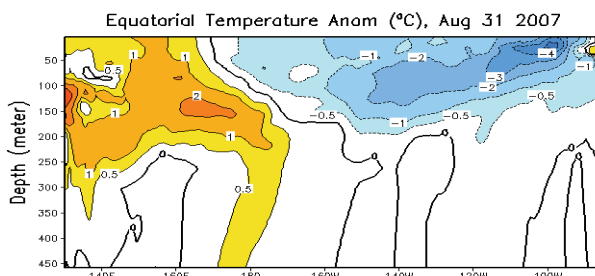
Aug 2007

**SEA SURFACE TEMPERATURE  
ANOMALIES, AUGUST 2007**

Taking into account the present thermal behaviour from the Equatorial Pacific Ocean, as well as the outputs of several models of numerical simulation, are anticipated that, during next the two months in the sector of the Eastern Pacific and Central the temperature of the sea would stay below its normal value.



At subsurface level, the behaviour of the thermal structure during August in the Eastern Equatorial Pacific was enough similar to the happened in the previous month, appearing negative anomalies of until  $-3,0^{\circ}\text{C}$  that reached the level of the 150 ms and until  $170^{\circ}\text{W}$ . At the end of the month, in the Eastern edge of the Pacific, a slight increase of the anomalies appeared, arriving to appear a small subsurface patch with positive anomaly ( $0,5^{\circ}\text{C}$ ). On the other hand in the Western margin of the Pacific, the water body with positive anomalies ( $1,0^{\circ}\text{C}$ ), deepened at the level of the 200 m, moving towards the East reaching the line of date in the Pacific.



SUBSUPERFICIAL TEMPERATURE ANOMALIES

## Perspective for the next weeks

### GLOBAL

Taking into account the present predictions from several numerical models, as well as the behaviour of the main oceanic and atmospheric indicators, is considered that the Equatorial Pacific during the next weeks would continue presenting certain neutrality with noticeable tendency towards a cold period, particularly in the Eastern and coastal Equatorial Pacific.

### REGIONAL

In agreement with the pursuit of the ocean-atmospheric conditions in the Southeastern Pacific Ocean, executed by Program ERFEN (integrated by Committees National ERFEN of Chile, Colombia, Ecuador and Peru), and coordinated by the CPPS, it is anticipated that during the next month the cooling of the SST in the Eastern and coastal Equatorial Pacific would stay, like the temperature of the air, that will present values below its normal one, particularly from the coasts from Chile to the south of Ecuador.

In reference to the level of the sea, it would continue fluctuating around its average value, with certain tendency to maintain the negative anomalies in front of Chile. With respect to rains, they will present an accumulated agreed distribution to the normal ones of the time, especially for the pacific coast of Colombia and north coast of Ecuador; whereas for the rest of the region the tendency of precipitations is below the normal line, in special the central coast of Chile.

Institutions that collaborate in this bulletin:



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