

# CLIMATE ALERT BULLETIN (BAC)

**CPPS**

SUMMARIZED VERSION

**OCTOBER 2007**

**BAC 205**

October was characterized by the permanence of the cold conditions in the region of the equatorial Pacific, continuing with the development of the cold event "La Niña"; this cooling comes presenting more intense in the center and eastern edge, diminishing the negative anomalies of the sea temperature towards the western sector of the Pacific Ocean.

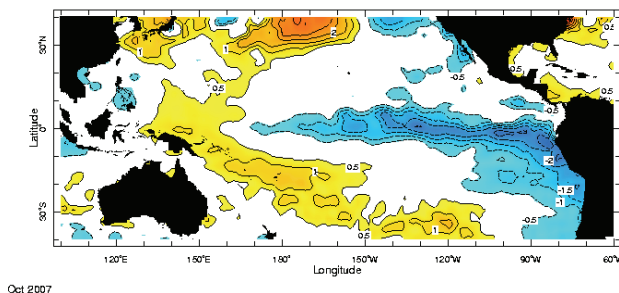
The temperature of the sea during the last week of October exhibited anomalies of  $-0.6^{\circ}\text{C}$  in the Western Pacific,  $-1.7^{\circ}\text{C}$  for the Central Pacific and  $-1.6^{\circ}\text{C}$  in the Eastern Pacific.

Surface winds, in the region of the Southeastern Pacific showed the predominance of winds from the south and Southeastern with speeds fluctuating around the normal range for the date.

The Southern Oscillation Index, by third consecutive months presents positive values being in this occasion of 0.6.

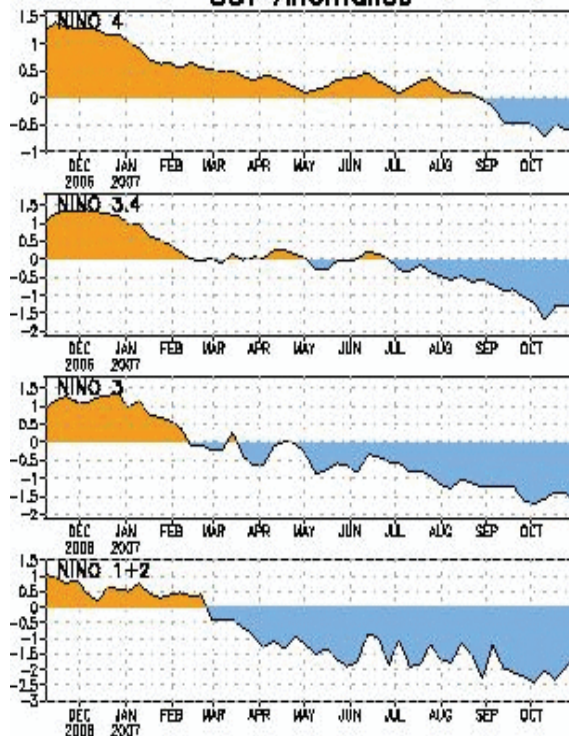
During October the Mean Sea Level in the Southeastern Pacific, fluctuated near its normal patterns, except in the coasts of Ecuador, where it was 2.0 cm on the average, in Peru fluctuated between -3.0 (Talara, Paita and Matarani) and -6.0 cm (Chimbote and Callao) and in Chile stayed the previously observed behaviour, with anomalies that fluctuated between -6,8 cm and -13.5 cm.

Anomalía de la Temperatura Superficial del Mar ( $^{\circ}\text{C}$ )  
Octubre 2007



**SEA SURFACE TEMPERATURE  
ANOMALIES, OCTOBER 2007**

## SST Anomalies



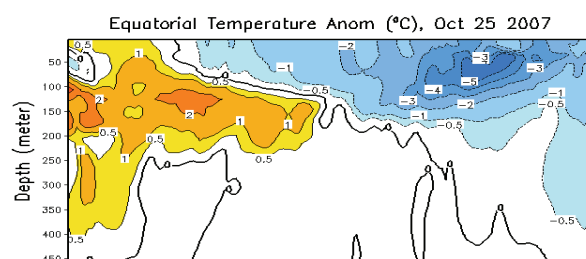
**SEA SURFACE TEMPERATURE ANOMALIES  
FOR THE NIÑO REGIONS**

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



At subsurface level, the behaviour of the thermal structure during October in the Eastern Equatorial Pacific presented negative anomalies until  $-4,0^{\circ}\text{C}$  that were located in the level of the 150 m between  $100^{\circ}\text{W}$  and  $140^{\circ}\text{W}$ . Nevertheless, to the west of the date line, at the level of 120m, a small core with positive anomalies until  $2, 0^{\circ}\text{C}$  appears.

The Mean Sea Level (MSL) in the Southeastern Pacific during October fluctuated near its normal patterns for the month: In front of the coasts of Ecuador was 2.0 cm on the average, in Peru fluctuated between -3, 0 (Talara, Paita and Matarani) and -6,0cm (Chimbote and Callao) and in Chile stayed the behaviour observed from year beginnings, with negative anomalies that fluctuated between -6, 8 cm and -13, 5 cm.



SUBSURFICIAL TEMPERATURE ANOMALIES  
October 2007

## 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, it is considered that the Equatorial Pacific during the next month would continue presenting cold conditions typical of the event “La Niña”, particularly in the region of 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 National Committees ERFEN of Chile, Colombia, Ecuador and Peru), and coordinated by the CPPS, it is anticipated that during the next month will continue the cooling of the SST in the Eastern and Coastal Equatorial Pacific, like the temperature of the air, that will present values below its normal pattern, particularly from the coasts from Chile to the south of Ecuador.

As far as the Sea Level would also continue fluctuating around its average value, with some tendency to maintain the negative anomalies, particularly in front of Chile. With respect to rains, they will present a slightly deficit distribution for the time, for the pacific coast of Colombia and north coast of Ecuador; whereas for the rest of the region the tendency of precipitations is to stay below the normal value.

Institutions that collaborate in this bulletin:



**COLOMBIA**

IDEAM

CCCP



**ECUADOR**

INOCAR

INAMHI



**PERU**

DHN



**CHILE**

SHOA

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