The Climate of the Colombia country is strongly influenced by two air streams having highest running speeds between 900 and 1000 hPa, these are the Jet Streams of Chocó and the Caribbean Low Level Jet. Although these streams move in opposite directions, their meet cause a series of atmospheric phenomena that determine the weather of much of this country. (Poveda & Mesa 1999).

In this graphs we observed that the period of DJF that there is not precipitation in the Cesar river valley area and in the period of SON the precipitation is low. All this behavior of the precipitation is very important for to study the pollutants dispersion produced for the opencast mining projects.

The winds in the Cesar river valley are highly influenced for the CLLJ in the periods of DJF and MAM, allowing winds in the northeast direction with velocities of 5-8 m/s. The WCI is stronger in the period of SON allowing winds in the southeast direction with velocities of 2-4 m/s.

Higher temperatures in both oceans and in the continent are presented to the DJF station, where the winds of CLLJ are more intense and CHOCO jet don’t find a gradient to move more strongly to the region of Chocó in Colombia. The lower temperature gradient occurs in the Pacific in JJA and SON stations, which allow the increase the intensity of the CHOCO jet.

With this climatological analysis was possible knowing the behavior of the Weather variables that are determinants in the study of the pollutants dispersion that are emitted for the opencast coal mining projects over the Cesar river valley. The dry period DJF was the period with the greater susceptibility of air contamination in the study area. For future works is important focus in this period.

Acknowledgments
José L. Rodríguez Castilla1, Luis C. Angulo Argote2, Gloria M. Restrepo Vásquez3, Roberto E. Rojano4.
1. Cesar University, jlorrodriguez@gmail.com. 2. Cesar University, laangulo@unicesar.edu.co 3. Antioquia University, glomo@udea.edu.co 4. Guajira University, aroberito23@gmail.com

References:
Poveda y Mesa La corriente de chorro superficial del choco y otras dos corrientes de chorro durante el ENSO. 1999, Rev. Acad. Colomb. Cienc. EXC, 23 (89): 517–528. ISSN 0370-7231.

In this graphs we observed for the period of DJF that there is not precipitation in the Cesar river valley area and in the period of SON the precipitation is low. All this behavior of the precipitation is very important for to study the pollutants dispersion produced for the opencast mining projects.