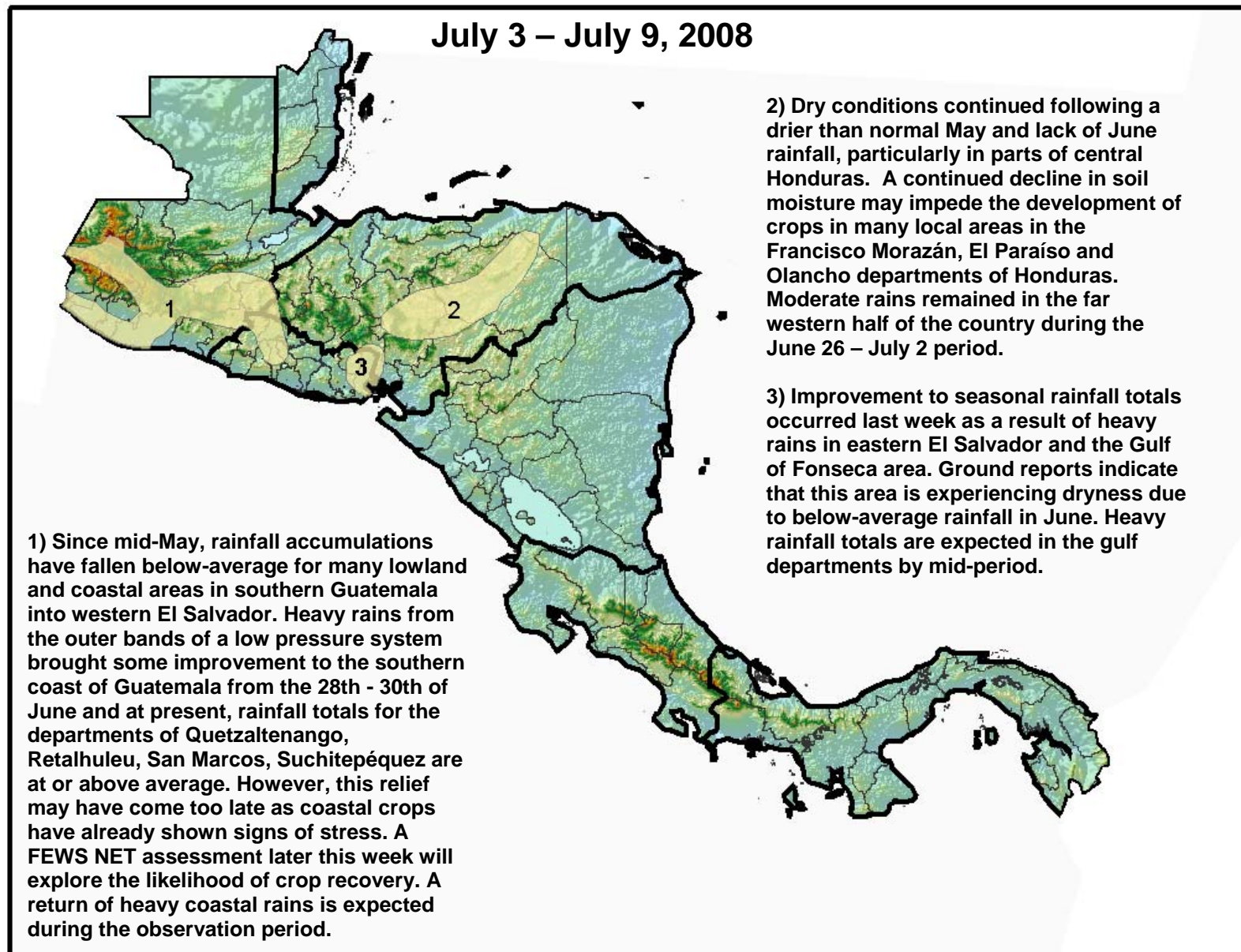


The MFEWS

Central America Weather Hazards and Benefits Assessment

For

July 3 – July 9, 2008

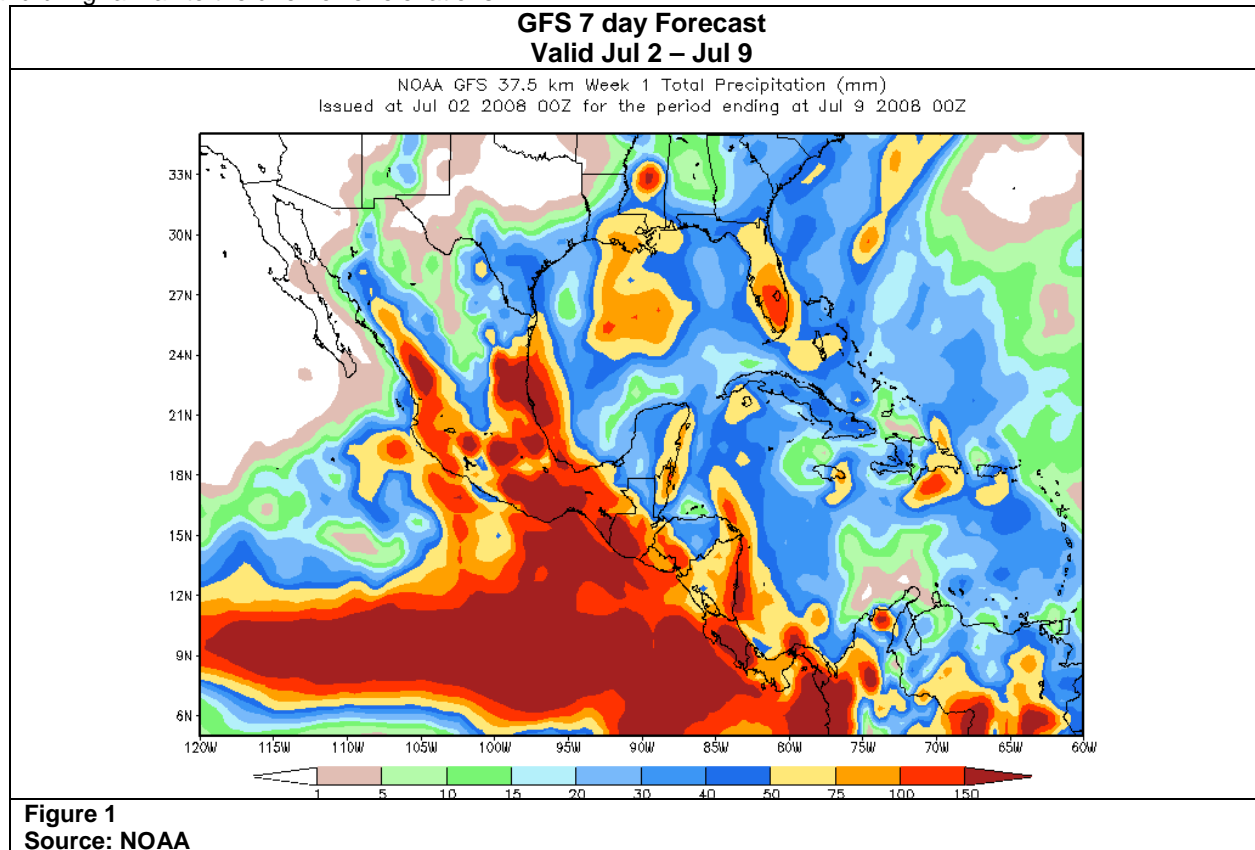


Hazards Assessment Text Explanation:

During the June 26 – July 2 observation period tropical activity picked up in the eastern Pacific. This brought about the formation of three tropical depressions, Hurricane Boris and Tropical Storm Cristina. All of the systems were situated west of the Central America region except Tropical Depression 04E. It formed southwest of Guatemala and began as an unorganized low pressure area. Large outer bands of convection brought heavy rains to Nicaragua, El Salvador and Guatemala's southern coast. Though the rainfall totals associated with this system were significant little is expected in terms of crop and soil condition improvement. For the Primera season (May – August), precipitation deficits have been significant for southern Guatemala, central Honduras, and eastern El Salvador.

Field reports indicate that there is a small area of stress along the southern Guatemalan coast and that if dryness continues until the Canicula period, this may negatively affect crops that are in vegetative stages. In central Honduras, precipitation levels in many local areas are considerably below normal, having received less than 25% of their average rainfall by mid-June. Continued dryness could potentially lead to a decrease in water resources, and impede the development of maize and sorghum crops in the Francisco Morazán, El Paraíso and Olancho departments of Honduras. El Salvador is experiencing dryness also due to occasional periods of consecutive days having little to no rain. This dryness is situated in the eastern departments of the country into Honduras around the Gulf of Fonseca.

The persistent dryness observed in the northern Central America region during most of the Primera is largely due to the near stationary high pressure ridge that was located in the Gulf of Honduras during the month of May followed by another high pressure ridge situated over Nicaragua during the month of June. High pressure systems are known to cause "fair weather" meaning no clouds or rain. Unfortunately, this high pressure ridge is situated in a manner which is preventing rain from reaching the valley areas located along the Motagua River where Guatemala is experiencing dryness, especially in the east. Other moisture sources for the country coming from the north and south are doing well due to orographic lifting in which tall land features, such as mountains, cause quick forming convection. However, these moisture sources are not strong enough to migrate over the Sierra Madre mountain ranges and bring rainfall to the drier lower elevations.



The evaluation of climatological threats of MFEWS include the participation of the central and local offices of MFEWS, NOAA-CPC, USGS, NASA, INETER of Nicaragua, Meteorological Service of Honduras, IMN of Costa Rica, INSIVUMEH of Guatemala, ETESA of Panama, NMS of Belize and SNET of El Salvador. Any questions or comments on this product can be directed to Wassila.Thiaw@noaa.gov