

Localization of Microbaroms Detected by I17CI and I11CV in IMS Data

By using IMS data from 2009 to 2015 of I17CI and I11CV infrasound stations, we study in 0.1Hz to 0.3Hz frequency band, with GPMCC software of NDC-in-Box, the microbaroms in summer et winter periods. We find that the microbaroms detected in winter period by both station comes from the north Atlantic (upper to 30°N). In summer (Jun, July and August), the microbaroms detected are located on equatorial Atlantic band (around 15°N) near the west side of West Africa. Note that, in this zone, the ocean circulation in the upper equatorial Atlantic is composed of vigorous zonal currents. At the surface, there are branches of the North Equatorial Countercurrent (NECC) and South Equatorial Current (SEC) flowing respectively eastward and westward.

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