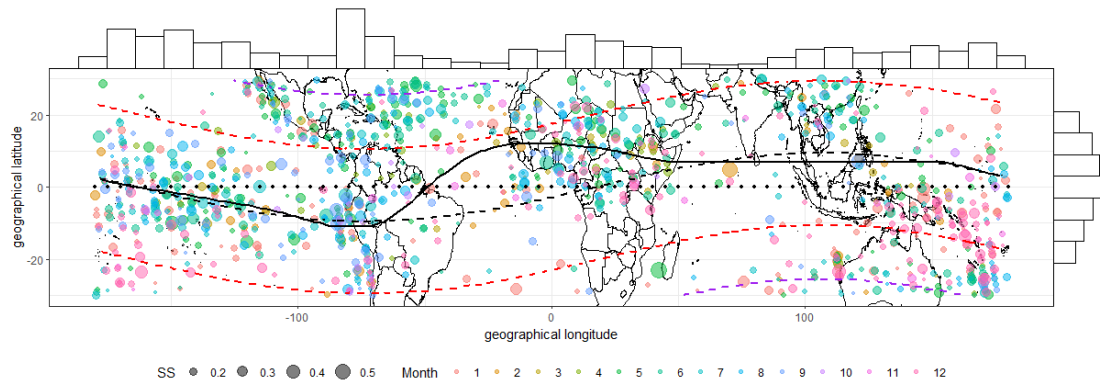




Post-midnight irregularities in 2019, a low solar activity year, show wavenumber 4 distribution pattern along the dip equator, with the African, Asian, Central Pacific, and West American longitudes being the peak and the Indian, West Pacific, East Pacific, and Atlantic longitudes being the valley.