LARGE NIGHTTIME IONOSPHERIC F-REGION TRACE CONSTITUENT CONCENTRATIONS AS OBSERVED THROUGH INCOHERENT SCATTER TECHNIQUE AT THE ARECIBO DESERVATORY, OURING THE 1986 LOW SOLAR CYCLE EPOCH

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Unusually large ionospheric F-region light-ion (H[†])

concentrations have been detected during a set of five nighta of experiments that were carried out at the Arecibo Observatory (Puerto Rico), utilizing radar incoherent scatter measurement technique. Concentrations of the order of tens of times larger than those predicted by ionosoheric models have been observed. Such phenomenon may be associated with the low aclar activity epoch during which the measurements here concentred were made. This work contains a detailed discussion on the observations cited above.