HFUS 1 BOU 252200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 207
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 JULY 1980
IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE LARGEST FLARE OF THE DAY, A C5/SF OCCURRED FROM REGION 2570 (S25W79) AT 1542Z MAXIMUM. THE SLOW DECAY NOTED IN THIS REGION AND REGION 2571 (S21W66) HAS STABILIZED WITHIN THE LAST 24 HOURS. REGION 2579 (S19W25), THE REGION WITH THE MOST FLARE POTENTIAL ON THE DISK, ONLY MANAGED TO PRODUCE A SMALL SUBNORMAL FLARE AT 1718Z MAXIMUM. THE REGION CONTINUES TO DECAY SLOWLY, BUT STILL RETAINS ITS VERY WEAK DELTA IN THE LARGE LEADER SPOT. REGION 2582 (N11W09) IS GROWING RAPIDLY WITH ARCH FILAMENT REPORTED AND A DELTA CONFIGURATION EMERGING WITHIN THE LAST 8 HOURS. REGION 2588 (S07E48) IS THE ONLY OTHER ACTIVE REGION, PRODUCING TWO SUBFLARES. NEW REGION 2590 (N26E52) WAS NUMBERED TODAY, A SMALL A-TYPE SPOT GROUP.
IB. SOLAR ACTIVITY IS EXPECTED TO BE BASICALLY LOW DURING THE FORECAST PERIOD. REGION 2579 IS STILL CAPABLE OF AN ISOLATED M-CLASS EVENT, ALONG WITH REGION 2482 IF ITS GROWTH CONTINUES. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN AT EAST LIMB.
II. A SMALL LOW ENERGY PROTON ENHANCEMENT BEGAN NEAR 0200Z TODAY AND REACHED MAXIMUM AT 1130Z, BUT NO SIGNIFICANT PARTICLES WERE NOTICED ON THE GREATER THAN 10 MEV CHANNELS.
THE GEOMAGNETIC FIELD BECAME ACTIVE FOLLOWING A SUDDEN COMMENCEMENT AT 1114Z. ACTIVE TO MINOR STORM LEVELS HAVE BEEN RECORDED SINCE THE SC. THE EVENT, WHICH IS THE PROBABLE RESULT OF THE M8/2B ON THE 23RD, SHOULD CONTINUE FOR ANOTHER 24 HOURS FOLLOWED BY GRADUAL SETTLING CONDITIONS.
III. EVENT PROBABILITIES 26 JULY - 28 JULY
CLASS M 60/50/50
CLASS X 05/05/05
PROTON 05/05/05
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 25 JULY 200
PREDICTED 26-28 JULY 191/184/177
90-DAY MEAN 25 JULY 205
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 24 JULY 06
ESTIMATED AFR/AP 25 JULY 19/20
PREDICTED AFR/AP 26-28 JULY 14/15 10/10 08/10
SOLTERWARN
BT