HFUS 1 BOU 172200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 199
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 17 JULY 1980
IA. SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS. REGION 2562 (S12W10) PRODUCED A M3/1B PARALLEL RIBBION EVENT AT 0612 UT. TYPE II/IV SWEEPS AND A 300 FLUX UNIT BURST AT 2695 MHZ WERE ALSO RECORDED. THE FLARE WAS LOCATED NEAR A NORTH TO SOUTH FILAMENT WHICH DISAPPEARED JUST PRIOR TO THE FLARE. REGION 2570 (S23E28) PRODUCED A SF FLARE AT 0149 UT AND REGION 2559 (N19W34) A C3/SN AT 1335 UT. REGION 2562 HAS SHOWN AN INCREASE IN MAGNETIC COMPLEXITY WITH TWO DELTAS IN THE LEADER SPOT GROUPS. REGION 2570 HAS A WEAK DELTA HOWEVER, IT IS NOT EXPECTED TO PERSIST. REGION 2572 (N13E42) HAS A STRONG DELTA IN THE LEADER SPOT GROUP AND A SPOT OF LEADER POLARITY EMBEDDED IN THE TRAILER SPOTS. NEW REGIONS TODAY ARE 2576 (N17E63) AND 2577 (S12E71). REGION 2577 MAY BE OLD 2529 WHICH HAD AN M-CLASS EVENT LAST ROTATION.
IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS AS REGIONS 2562/2570/2572 APPEAR CAPABLE OF SMALL M-CLASS EVENTS WITH 2562 CAPABLE OF A SMALL X-CLASS EVENT.
II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. THE FIELD IS EXPECTED TO BE QUIET TO SLIGHTLY UNSETTLED UNTIL 19 JULY WHEN NEAR ACTIVE CONDITIONS MAY OCCUR DUE TO THE EFFECTS OF THE FILAMENT DISRUPTION AND M3 FLARE FROM REGION 2562 ON 17 0612 UT
III. EVENT PROBABILITIES 18 - 20 JULY
CLASS M 80/80/85
CLASS X 10/10/10
PROTON 05/05/10
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 17 JULY 249
PREDICTED 18 JULY - 20 JULY 255/265/270
90-DAY MEAN 17 JULY 201
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 16 JULY 08
ESTIMATED AFR/AP 17 JULY 09/11
PREDICTED AFR/AP 18 - 20 JULY 09/10 14/10 09/15
SOLTERWARN
BT