HFUS 1 BOU 062200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 187
JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 06 JULY 1979
IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS WITH ONLY
LOW C-CLASS AND SUBFLARE ACTIVITY BEING REPORTED. THERE ARE 17
SPOTTED REGIONS ON THE DISK, INCLUDING ONE NEW REGION TODAY WHICH
IS 1861 (S32W06), AN A-TYPE GROUP. SIGNIFICANT GROWTH OCCURED
IN REGIONS 1855 (S29E43), 1858 (N18E23), 1859 (N21E39), AND 1860
(N28E60). REGION 1849 (N11E24) IS THE MOST MAGNETICALLY COMPLEX
GROUP ON THE SUN (BETA-DELTA).
IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT
THREE DAYS. SEVERAL REGIONS ON THE SUN HAVE THE POTENTIAL TO
PRODUCED M-CLASS ACTIVITY ALTHOUGH THE COMPLEXITY USUALLY ASSOCIATED
WITH X-CLASS EVENTS IS NOT PRESENT.
II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST
24 HOURS. A SUDDEN IMPULSE OF 33 GAMMAS OCCURRED AT 1930 UT, APPARENTLY
ORIGINATING FROM THE M-CLASS EVENTS ON 4 JULY. ENHANCED PROTON LEVELS
ARE ASSOCIATED WITH THE MAGNETIC ACTIVITY, BUT ARE PRESENTLY RE-
MAINING JUST BELOW THE EVENT THRESHOLD OF 10 PROTONS/CM SQUARED/
SEC/STER FOR GREATER THAN 10 MEV PARTICLES. THE GEOMAGNETIC FIELD
IS EXPECTED TO REMAIN ACTIVE FOR TOMORROW, DECREASING TO UNSETTLED
AND THEN QUIET CONDITIONS ON THE THIRD DAY. THE PROTON LEVELS ARE
EXPECTED TO FLUCTUATE NEAR THRESHOLD FOR THE NEXT 24 HOURS ONLY.
A RECURRENT CORONAL HOLE AT N30E40 WAS IDENTIFIED ON TODAYS HELIUM
10830 PICTUER FROM KITT PEAK OBSERVATORY. THE HIGH SPEED SOLAR WIND
FROM THIS CORONAL HOLE SHOULD PRODUCE ACTIVE GEOMAGNETIC CONDITIONS
IN APPROXIMATELY ONE WEEK.
III. EVENT PROBABILITIES 07 JULY - 09 JULY 1979
CLASS M   50/50/50
CLASS X   05/05/05
PROTON   50/15/05
PCAF   YELLOW
IV. OTTAWA 10.7 CM FLUX
OBSERVED 06 JULY 210
PREDICTED 07 JULY - 09 JULY 210/208/206
90-DAY MEAN 06 JULY 175
V. GEOMAGNETIC A INDICES
OBSERVED FREDERICKSBURG 05 JULY 08
ESTIMATED AFR/AP 06 JULY 15/17
PREDICTED AFR/AP 07 - 09 JULY 20/25 10/12 06/08
SOLTERWARN
BT