

HFUS 1 B O U 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 123

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 02 MAY 1980

IA. SOLAR ACTIVITY HAS DECLINED SOMEWHAT SINCE YESTERDAY.  
SEVERAL CLASS C XRAY BURSTS ALONG WITH SEVERAL SUBFLARES  
IS THE ONLY ACTIVITY THATS BEEN REPORTED. HOWEVER, REGION 2411  
(S17W23) HAS GROWN CONSIDERABLY AND IS MORE COMPLEX IN BOTH H-ALPHA  
AND WHITE LIGHT. MT WILSON DATA SHOWS THE POSSIBILITY OF TWO MAGNETIC  
DELTA CONFIGURATIONS AND THE NEUTRAL LINE HAS TAKEN ON AN E-W  
HAIRPIN SHAPE. THE FLARE WAS NEAR FLARE BRIGHT BEHIND THE LEADER  
SPOT MOST OF THE MORNING AND AT LAST VIEWING WAS COMPOSED OF  
BRIGHT RIBBONS LYING ALONG THE HAIRPIN NEUTRAL LINE. REGION 2418  
(S19E42) HAS GROWN IN WHITE LIGHT SINCE YESTERDAY BUT THIS MAY BE  
DUE TO ITS MORE FAVORABLE DISK LOCATION. THE H-ALPHA STRUCTURE IS  
LITTLE CHANGED. WITH THE EXCEPTION OF SOME GROWTH IN 2420 (S23W77)  
WHICH IS NEARING WEST LIMB, NOT MUCH ELSE ON THE DISK HAS CHANGED.  
A NEW 'H' TYPE SPOT IS LOCATED AT N26W87 AND IS NUMBER 2425.  
IB. SOLAR ACTIVITY IS EXPECTED TO BE AT LOW TO MODERATE LEVELS DURING  
THE COMING 24 HOURS AS THE APPARENT TENSION IN 2411 IS RELAXED.  
II. THE GEOMAGNETIC FIELD WAS QUIET DURING THE LAST 24 HOURS.  
QUIET CONDITIONS ARE LIKELY TO CONTINUE FOR THE NEXT DAY. THE GEO-  
MAGNETIC FIELD IS EXPECTED TO BECOME ACTIVE ON 04 MAY DUE TO THE  
X2/IB FLARE OF 01 MAY.

III. EVENT PROBABILITIES 03 MAY - 05 MAY

CLASS M 90/90/95

CLASS X 15/20/25

PROTON 10/10/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAY 220

PREDICTED 03 MAY - 05 MAY 228/232/236

90-DAY MEAN 02 MAY 193

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 01 MAY 10

ESTIMATED AFR/AP 02 MAY 5/8

PREDICTED AFR/AP 03 MAY - 05 MAY 10/12 20/15 15/20

SOLTERWARN

BT