

FUS 3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 171

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 20 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100  
TO 20/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION  
4213 (S12W12) PRODUCED AN M1/SB AT 2335Z AND A C8/SB AT 1421Z.  
ONLY MINOR RADIO BURSTS ACCOMPANIED THESE FLARES. THE PENUMBRA  
WHICH HAD FORMED THE DELTA YESTERDAY HAS DISSIPATED, SEPARATING  
THE OPPOSITE POLARITY SPOTS. A MODERATE GRADIENT REMAINS BUT  
THE REGION IS NOW CLASSIFIED BETA GAMMA. SLOW DECAY CONTINUES  
IN REGION 4210 (N18W19) AND REGION 4209 (N15W13) REMAINS  
ESSENTIALLY UNCHANGED. BOTH REGIONS 4214 (N14E23) AND 4216  
(N18E39) CONTINUE TO GROW. A LARGE FILAMENT JUST WEST OF REGION  
4214 DISSIPATED IN THE MIDDLE; LEAVING A SPLIT FILAMENT NORTH  
AND SOUTHWEST OF THE REGION. REGION 4217 (N18E58) MAY BE TWO  
REGIONS; CLARIFICATION WILL BE MADE TOMORROW. THOUGH SPOTLESS,  
REGION 4211 (N11W85) HAS BEEN OF MODERATE INTENSITY AND HAS HAD  
FREQUENT SURGING. IT MAY BE REJUVENATING AT WEST LIMB PASSAGE.  
REGIONS 4218 (N04E40) AND 4219 (S08E74) WERE ADDED TODAY.  
REGION 4219 PRODUCED A C3/1N AT 1304Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW WITH A CHANCE OF AN ISOLATED CLASS M FLARE POSSIBLE FROM  
SEVERAL OF THE DISK REGIONS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE BUT WITH OCCASIONAL  
PERIODS OF STORM LEVEL AT HIGH LATITUDES ASSOCIATED WITH  
INDIVIDUAL SUBSTORMS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO ACTIVE FIELD  
CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JUN-23 JUN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JUN 133

PREDICTED 21 JUN-23 JUN 135/138/140

90 DAY MEAN 20 JUN 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 JUN 018/023

ESTIMATED AFR/AP 20 JUN 017/025

PREDICTED AFR/AP 21 JUN-23 JUN 012/020-012/020-012/015

SOLTERWARN

BT