

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

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