

FUS 3. BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 168

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 JUN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100 TO 17/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4213 (S13E30) PRODUCED AN M1/SB AT 17/0053Z. ONLY MINOR RADIO BURSTS ACCCOMPANIED THIS FLARE. SUBSEQUENT EVENTS HAVE BEEN MINOR SUBFLARES FROM REGIONS 4209 (N13E24), 4210 (N17E20), AND 4213. PENUMBRAL GROWTH CONTINUES IN REGIONS 4209 AND 4210. THESE TANDEM GROUPS HAVE NON-STANDARD NEUTRAL LINES. ANY PERTUBATION COULD TRIGGER AN ENERGETIC FLARE FROM EITHER OR BOTH OF THESE REGIONS. REGION 4213 CONTINUES TO GROW IN TOTAL SUNSPOT SIZE AND NUMBER. NO NEW REGIONS WERE ADDED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. ISOLATED CLASS M FLARES ARE POSSIBLE FROM REGIONS 4209, 4210, AND 4213.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: - GENERALLY ACTIVE FIELD CONDITIONS, WITH PERIODS AT MINOR STORM LEVEL (PRIMARILY AT HIGH LATITUDES), ARE EXPECTED THROUGH THE FORECAST PERIOD. THIS RESPONSE IS DUE TO A RECURRENT EQUATORIAL CORONAL HOLE.

III. EVENT PROBABILITIES 18 JUN-20 JUN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUN 127

PREDICTED 18 JUN-20 JUN 127/127/127

90 DAY MEAN 17 JUN 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JUN 008/012

ESTIMATED AFR/AP 17 JUN 014/025

PREDICTED AFR/AP 18 JUN-20 JUN 023/020-025/030-018/035

SOLTERWARN

BT