

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 124

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/2100 TO 03/2100Z: SOLAR ACTIVITY WAS LOW. REGION 4474 (S13W74) PRODUCED A C7/0B EVENT AT 3/0319Z AND SEVERAL LOW-LEVEL C-CLASS X-RAYS WITH SUB-FLARES AND INSIGNIFICANT RADIO BURSTS. IT RETAINED ITS BETA-GAMMA-DELTA MAGNETIC CONFIGURATION, BUT CONTINUED ITS DECAY WITH AREA AND SPOT NUMBER DECREASE IN WHITE LIGHT. IT HAD ACTIVE DARK FILAMENTS, POINT BRIGHTENINGS, AND SURGES. REGION 4476 (S11W48) PRODUCED A FEW LOW-LEVEL C-CLASS X-RAYS WITH SUB-FLARES ALSO. IT HAD ACTIVE DARK FILAMENTS AND POINT BRIGHTENINGS. NO NEW REGION WAS NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. REGION 4474 PROVIDES A FAIR CHANCE OF MODERATE LEVELS WITH A VERY SLIGHT CHANCE OF HIGH LEVELS. RETURNING REGION 4471 (N04, CAR-153) IS EXPECTED AT 5/2000Z. IT PRODUCED FOUR M-CLASS X-RAYS AND FOUR IMPORTANCE ONE FLARES DURING ITS LAST APPEARANCE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 02/2100Z TO 03/2100Z: GEOMAGNETIC ACTIVITY WAS UNSETTLED TO ACTIVE. MINOR STORM LEVELS WERE REPORTED AT THULE FROM 3/0600 TO 0930Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS EXPECTED TO BE UNSETTLED TO ACTIVE. STORM LEVELS ARE EXPECTED AT HIGH LATITUDES. BRIEF MINOR STORM LEVELS ARE EXPECTED AT MID-LATITUDES FROM 5/0000Z UNTIL 6/1800Z. THIS IS EXPECTED DUE TO RECURRING ACTIVE CARRINGTON LONGITUDES.

III. EVENT PROBABILITIES 04 MAY-06 MAY

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 121

PREDICTED 04 MAY-06 MAY 116/111/110

90 DAY MEAN 03 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAY 012/018

ESTIMATED AFR/AP 03 MAY 014/015

PREDICTED AFR/AP 04 MAY-06 MAY 010/015-020/025-016/025

SOLTERWARN

BT