

HFUS3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 124

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 04 MAY 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100 TO 04/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. REGION 4649(N06E28) HAS DECLINED IN AREA AND ACTIVITY, AND NOW APPEARS AS AN AXB TYPE SPOT GROUP. REGION 4650(N04E45) HAS CHANGED LITTLE AND IS A CRO TYPE SPOT GROUP WITH A BETA MAGNETIC CLASSIFICATION. REGION 4651(N10E06) WAS SPOTLESS BUT CONTAINED AN ARCH FILAMENT SYSTEM. NO NEW REGIONS WERE NUMBERED TODAY. DISAPPEARING FILAMENT ACTIVITY OVERNIGHT

FOLLOWS: 18 DEGREES IN EXTENT AT S30W18; 4 DEGREES IN EXTENT AT N08E53; 2 DEGREES IN EXTENT AT S01E37. ACTIVE PROMINENCES WERE OBSERVED AT N42E90 AND S40E90. SURGING WAS REPORTED AT N10E90.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN. NO REGIONS ON THE DISK ARE EXPECTED TO PRODUCE ANY SIGNIFICANT ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE FOR THE PAST 24 HOURS. UNSETTLED CONDITIONS PREVAILED 03/2100UT TO 04/0600UT AND ACTIVE CONDITIONS WERE OBSERVED 04/0600UT TO 04/2100UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH MINOR STORMING AT HIGH LATITUDES FOR THE NEXT 48 HOURS. THE STORMING IS EXPECTED TO BEGIN LATE ON 05 MAY. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED FOR THE SUBSEQUENT 24 HOURS. THE SLIGHT INCREASE IN ACTIVITY IS PREDICTED ON THE BASIS OF A RESPONSE TO THE EFFECTS OF THE PASSAGE OF A SOUTHERN EXTENSION OF THE NORTH POLAR CORONAL HOLE WHICH PASSED THE CENTRAL MERIDIAN ON 01 MAY. ANALYSIS OF THE CORONAL MASS EJECTION ASSOCIATED WITH THE M4.9/1B EVENT IN REGION 4647 ON 01 MAY INDICATES THAT THE EJECTION WILL NOT AFFECT THE GEOMAGNETIC FIELD.

III. EVENT PROBABILITIES 05 MAY-07 MAY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAY 070

PREDICTED 05 MAY-07 MAY 070/069/069

90 DAY MEAN 04 MAY 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAY 006/009

ESTIMATED AFR/AP 04 MAY 012/015

PREDICTED AFR/AP 05 MAY-07 MAY 020/020-018/030-014/020

SOLTERWARN

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