

FUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 266

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100 TO 23/2100Z: THE SOLAR ACTIVITY HAS BEEN LOW FOR THE LAST 24 HOUR PERIOD. REGION 4324 (S20E58) PRODUCED A ZERO NORMAL AND SUB-FLARE WITH ASSOCIATED XRAY EVENTS OF B4 AND C4 BEGINNING AFTER 23/1500UT. NO NEW REGIONS WERE ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL FOR THE FORECAST PERIOD. REGION 4324 IS EXPECTED TO CONTINUE TO PRODUCE FLARE/EVENT ACTIVITY AT AN INCREASING RATE. A SLIGHT CHANCE OF MODERATE LEVEL ACTIVITY IS EXPECTED IN THE PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC ACTIVITY WAS AT QUIET TO UNSETTLED LEVELS DURING THE LAST 24 HOUR PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT QUIET TO UNSETTLED LEVELS THROUGH THE 24TH OF SEPTEMBER. THE GEOMAGNETIC ACTIVITY IS THEN EXPECTED TO INCREASE TO ACTIVE/MINOR STORM LEVELS ON THE 25TH OF SEPTEMBER. THE ACTIVITY IS EXPECTED TO VARY BETWEEN MINOR STORM AND ACTIVE LEVELS THROUGHOUT THE 26TH AND THE 27TH OF SEPTEMBER. MAJOR STORM LEVELS ARE EXPECTED AT HIGH LATITUDE SITE DURING THE NIGHTTIME HOURS AFTER THE 24TH OF SEPTEMBER. THE INCREASED GEOMAGNETIC ACTIVITY IS EXPECTED IN RESPONSE TO A 65DEGREE WIDE ENE-WSW ELONGATED CORONAL HOLE CENTERED AT 22DEGREES NORTH AND THE CENTRAL MERIDIAN ON SEPTEMBER 22ND AT 1900UT.

III. EVENT PROBABILITIES 24 SEP-26 SEP

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEP 112

PREDICTED 24 SEP-26 SEP 114/115/116

90 DAY MEAN 23 SEP 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 SEP 013/014

ESTIMATED AFR/AP 23 SEP 003/008

PREDICTED AFR/AP 24 SEP-26 SEP 005/010-020/020-025/025

SOLTERWARN

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