

T
HFUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 073
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 14 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100
TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS.
HOWEVER, THE GENERAL LEVEL OF ACTIVITY IS INCREASING. NINE
C-CLASS X-RAY EVENTS OCCURRED DURING THIS FORECAST PERIOD
COMPARED WITH THREE EVENTS YESTERDAY. MOST OF TODAY'S X-RAY
EVENTS WERE NOT OBSERVED OPTICALLY DUE TO POOR WEATHER
CONDITIONS WORLDWIDE. HOWEVER, THOSE FLARES WHICH HAVE BEEN
REPORTED OCCURRED IN TWO NEW REGIONS. REGION 4115 (S13E54),
LOCATED NEAR THE VICINITY OF 3 ROTATIONS OF SPOTTED REGIONS, IS
A C-TYPE GROUP CONTAINING A STRONG ARCH FILAMENT SYSTEM ACROSS
AN EAST-WEST INVERSION LINE. REGION 4116 (S07E74) IS PRESENTLY
A D-TYPE GROUP WITH A CLOSED POLE AROUND THE LEADER. ACTIVE
DARK FILAMENTS HAVE BEEN REPORTED IN REGIONS 4115 AND 4116, AND
NEAR S13E01.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE LOW BUT WITH AN INCREASING CHANCE OF ISOLATED M-CLASS
ACTIVITY FROM REGIONS NOW ROTATING ONTO THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN HIGHLY VARIABLE FOR THE PAST 24
HOURS. CONDITIONS RANGING FROM QUIET THROUGH MINOR STORM WERE
OBSERVED AS A CONTINUING RESPONSE TO A CORONAL HOLE-GENERATED
DISTURBANCE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE GENERALLY ACTIVE TOMORROW, BUT SHOULD TREND
TOWARD LOW-UNSETTLED CONDITIONS BY THE LAST DAY OF THE FORECAST
PERIOD.

III. EVENT PROBABILITIES 15 MAR-17 MAR

CLASS M 05/15/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 MAR 097

PREDICTED 15 MAR-17 MAR 103/105/110

90 DAY MEAN 14 MAR 140

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 MAR 024/023

ESTIMATED AFR/AP 14 MAR 022/025

PREDICTED AFR/AP 15 MAR-17 MAR 020/020-015/015-010/015

SOLTERWARN

BT