

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 085

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 MAR 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100 TO 26/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THE PAST 24 HOURS. REGION 4124 (N21W69) PRODUCED 12 SMALL FLARES DURING THIS PERIOD THE LARGEST WAS A C1/SN AT 26/0230UT, THIS WAS ALSO THE LARGEST EVENT OBSERVED. REGION 4124 EXHIBITED RAPID GROWTH AND IS NOW A D TYPE GROUP BUT STILL IS A SIMPLE BETA. THREE NEW REGIONS WERE NUMBERED TODAY 4128 (S15E44) A SMALL D TYPE, 4129 (S21E74) A SIMPLE A TYPE AND 4130 (S48W08) A SMALL B TYPE GROUP THIS REGION MAY ALSO BE A NEW CYCLE GROUP. THE REST OF THE REGIONS HAVE BEEN GENERALLY STABLE OR SLIGHTLY DECAYED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THIS PERIOD. REGION 4124 MAY PRODUCE, IF RAPID GROWTH CONTINUES, AN ISOLATED M CLASS EVENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVELS DURING THE FIRST SIX HOURS OF THIS PERIOD THE FIELD THEN WENT GENERALLY UNSETTLED TO QUIET AT BOTH THE HIGH AND MIDLATITUDE SITES. A LARGE CORONAL HOLE HAS JUST PASSED THE CENTRAL MERIDIAN.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED UNTIL NEAR THE END OF THE FORECAST PERIOD WHEN ACTIVE CONDITIONS ARE EXPECTED IN RESPONSE TO THE EFFECTS OF THE LARGE EQUATORIAL CORONAL HOLE.

III. EVENT PROBABILITIES 27 MAR-29 MAR

CLASS M 20/15/15

CLASS X 01/01/01

PROTON 01 01/01

PCAF GR EN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAR 118

PREDICTED 27 MAR-29 MAR 119/120/120

90 DAY MEAN 26 MAR 131

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAR 044/053

ESTIMATED AFR/AP 26 MAR 016/015

PREDICTED AFR/AP 27 MAR-29 MAR 010/015-015/015-020/020

SOLTERWARN

BT