

HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 076A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 17/1200Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 3643 (S06W01) PRODUCED A C9/1B EVENT AT 17/0236UT ONLY MINOR RADIO WAS OBSERVED. REGION 3643 CONTINUES TO INCREASE IN SIZE AND MAGNETIC COMPLEXITY. THE NEXT LARGEST EVENT WAS A C7, NO OPTICAL, AT 17/1108UT AND A PAIR OF C5 X-RAY EVENTS FROM REGION 3649 (N14E17) AT 17/0151UT AND 17/0948UT. TWO NEW REGIONS NUMBERED TODAY ARE 3651 (N03W02) AND 3652 (N04E82) BOTH ARE SIMPLE GROUPS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. WITH CONTINUED GROWTH IN 3643, 3649 AND 3644 (N08E03) M-CLASS EVENTS ARE TO BE EXPECTED. IF CHANGE CONTINUES IN REGION 3643 THEN ISOLATED X-CLASS EVENTS COULD OCCUR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. IN RESPONSE TO AN EQUATORIAL CORONAL HOLE AND A FILIAMENT WHICH DISAPPEARED ON 15/2340UT THE FIELD IS EXPECTED TO BE ACTIVE WITH PERIODS AT MINOR STORM LEVELS DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 18 MAR-20 MAR

CLASS M 60/60/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 MAR 230

ESTIMATED 17 MAR 232

PREDICTED 18 MAR-20 MAR 230/230/223.

90 DAY MEAN 16 MAR 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 MAR 005 AP 16 MAR 006

ESTIMATED AFR 16 MAR 004 AFR/AP 17 MAR 007/008

PREDICTED AFR/AP 18 MAR-20 MAR 018/016-020/025-015/015

SOLTERWARN

BT

HXUS BOU 171300

PREDM 06018 06019 07020

PREDX 00518 00519 00520

PREDP 00518 00519 00520

PCAFT 00118

TENCM 23018 23019 22320

AFRED 01818 02019 01520

AFAPP 01618 02519 01520

KKK 23344 33333 34433

BT

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 076B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE LAST NINE HOURS, CONFINED TO LOW LEVEL CLASS C X-RAY BURSTS AND SUBFLARES FROM REGIONS 3640 (N04W24), 3643 (S05W07), 3644 (N08W02), AND 3649 (N14E13). OF THESE FOUR REGIONS, ONLY REGION 3643 HAS SHOWN SOME ADDITIONAL SUNSPOT GROWTH DURING THE LAST 24 HOURS. ALL FOUR REGIONS SHOULD CONTINUE WITH SUBFLARE ACTIVITY WITH REGION 3643 MOST LIKELY PRODUCING HIGHER ENERGETIC FLARES. REGIONS 3651 (N03W08) AND 3652 (N04E74) HAVE BEEN ADDED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH REGION 3643 THE MAIN CONTRIBUTOR.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD BECAME ACTIVE AFTER 1200Z. ACTIVE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 18 MAR-20 MAR

CLASS M 60/60/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 MAR 233

PREDICTED 18 MAR-20 MAR 230/230/223

90 DAY MEAN 17 MAR 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 MAR 003/006

ESTIMATED AFR/AP 17 MAR 013/008

PREDICTED AFR/AP 18 MAR-20 MAR 018/016-020/018-015/015

SOLTERWARN

BT

HXUS BOU 172200

PREDM 06018 06019 07020

PREDX 00518 00519 00520

PREDP 00518 00519 00520

PCAF 00118

TENCM 23018 23019 22320

AFRED 01818 02019 01520

AFAPP 01618 01819 01520

BT