

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 062A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 3629 (S22E21) PRODUCED AN M1/SN FLARE MAXING AT 0358Z WHICH WAS NOT ASSOCIATED WITH SOLAR RADIO NOISE OR SIGNIFICANT HIGH FREQUENCY SHORT WAVE FADES. REGION 3629 HAS REMAINED MOSTLY STABLE IN H-ALPHA BUT HAS SHOWN SOME

RESTRUCTURING NEAR THE LARGE LEADER SPOT. REGION 3631 (S13E21), A COMPANION TO 3629, CONTINUES TO GROW AND HAS PRODUCED SEVERAL C-CLASS SUBFLARES. REGION 3625 (N14W21) HAS SHOWN SLIGHT GROWTH AND IS ALSO CONSISTENTLY PRODUCING C-CLASS SUBFLARES. HOWEVER, NONE OF THE REGIONS PRESENTLY ON THE VISIBLE DISK ARE MAGNETICALLY COMPLEX. NEW REGION 3632 (S08E81), AN H-TYPE SPOT WITH FAINT PLAGE, HAS ROTATED OVER THE EAST LIMB. THIS REGION APPEARS TO BE THE QUIET RETURN OF OLD ACTIVE REGION 3594.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. UNLESS CONSIDERABLE DEVELOPMENT OCCURS, REGIONS 3629 AND 3625 ARE NOT EXPECTED TO PRODUCE SIGNIFICANT FLARES ALTHOUGH ADDITIONAL ISOLATED M-CLASS EVENTS ARE POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS AT MAJOR STORM LEVELS AT 1200Z YESTERDAY, BUT HAS SINCE QUIETED DOWN TO UNSETTLED CONDITIONS. THE FIELD IS EXPECTED TO REMAIN MOSTLY UNSETTLED TODAY BUT BECOME ACTIVE TOMORROW IN RESPONSE TO CORONAL RESTRUCTURING EVIDENCED BY A FILAMENT DISAPPEARANCE ON 01 MARCH. UNSETTLED CONDITIONS SHOULD THEN PREVAIL FOR THE REMAINDER OF THE FORECAST PERIOD. CORRECTION TO YESTERDAY'S REPORT SDF61A: THE FILAMENT DISAPPEARANCE ASSOCIATED WITH THE GEOMAGNETIC STORM COMMENCING ON 01 MARCH OCCURRED ON 27 FEBRUARY BETWEEN 0000 AND 0140Z.

III. EVENT PROBABILITIES 04 MAR-06 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAR 238

ESTIMATED 03 MAR 245

PREDICTED 04 MAR-06 MAR 245/243/240

90 DAY MEAN 02 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 MAR 066 AP 02 MAR 090

ESTIMATED AFR 02 MAR 070 AFR/AP 03 MAR 015/025

PREDICTED AFR/AP 04 MAR-06 MAR 025/025-015/015-010/012

SOLTERWARN

BT

HXUS BOU 031300

PREDM 04004 04005 04006

PREDX 00104 00105 00106

PREDP 00104 00105 00106

PCAF 00104

TENCM 24504 24305 24006

AFRED 02504 01505 01006

AFAPP 02504 01505 01206

KKK 33454 43334 44332

BT

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 062B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 03 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/1200Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD. REGION 3629 (S22E15) PRODUCED A C7/SB EVENT AT 03/1637UT. SHORTWAVE FADE UP TO 15 MHZ WAS OBSERVED WITH THE EVENT. NEW REGION TODAY IS 3632 (S08E76) SIMPLE H-TYPE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN GENERALLY LOW DURING THIS FORECAST PERIOD. UNLESS RAPID CHANGE OCCURS IN REGIONS 3629 OR 3625 MAJOR EVENTS ARE NOT EXPECTED HOWEVER ISOLATED SMALL M-CLASS EVENTS ARE POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THIS PERIOD. THE FIELD IS EXPECTED TO BECOME ACTIVE WITH SHORT PERIODS AT MINOR STORM ON 4 MARCH. WITH THE FIELD ACTIVE TO UNSETTLED FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 MAR-06 MAR

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAR 234

PREDICTED 04 MAR-06 MAR 233/230/224

90 DAY MEAN 03 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAR 067/090

ESTIMATED AFR/AP 03 MAR 015/020

PREDICTED AFR/AP 04 MAR-06 MAR 025/025-015/015-010/012

SOLTERWARN

BT