

HFXUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 014A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. ONLY THREE SUBFLARES HAVE BEEN OBSERVED, ALL FROM REGION 3549(S08E31). THIS REGION IS STILL GROWING RAPIDLY AND POSSESSES THE ATTRIBUTES FOR ISOLATED SIGNIFICANT FLARES. REGION 3545 (S17W88) IS SURGING AS IT CROSSES THE WEST LIMB BUT HAS NOT PRODUCED AN X-RAY EVENT SINCE THE M1/1B FLARE EARLY ON 13 JANUARY. A NEW REGION, 3550(N03E20), HAS EMERGED AND IS EXHIBITING BRIGHT POINTS AND AN ARCH FILAMENT SYSTEM. ANOTHER NEW GROUP MAY BE DEVELOPING NEAR S10E40.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. WITH THE DEPARTURE OF 3545, ONLY REGION 3549 IS CAPABLE OF SIGNIFICANT FLARES. HOWEVER, A BAND OF PREVIOUSLY ACTIVE LONGITUDES WILL RETURN OVER THE NEXT THREE DAYS AND THE EAST LIMB SHOULD BE MONITORED FOR FLARE POTENTIAL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS. QUIET LEVELS ARE EXPECTED TO PREDOMINATE THROUGH TOMORROW WITH UNSETTLED CONDITIONS OCCURRING ON THE NEXT TWO DAYS IN RESPONSE TO AN M-CLASS FLARE ON 13 JANUARY AND AN ISOLATED SOUTHERN CORONAL HOLE.

III. EVENT PROBABILITIES 15 JAN-17 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 132

ESTIMATED 14 JAN 130

PREDICTED 15 JAN-17 JAN 130/135/140

90 DAY MEAN 13 JAN 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 JAN 002 AP 13 JAN 004

ESTIMATED AFR 13 JAN 005 AFR/AP 14 JAN 003/007

PREDICTED AFR/AP 15 JAN-17 JAN 008/008-012/015-010/012

SOLTERWARN

BT

HFXUS BOU 141300

PREDM 02015 02016 02017

PREDX 00115 00116 00117

PREDP 00115 00116 00117

PCAF 00115

TENCM 13015 13516 14017

AFRED 00815 01216 01017

AFAPF 00815 01516 01217

KKK 11232 22222 24332

BT

HFUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 014B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS REMAINED LOW THIS PERIOD. ONLY A SMALL C1/SF EVENT, FROM REGION 3549 (S08E26) AT 14/1555UT) HAS OCCURRED. A BRIGHT SURGE WAS OBSERVED FROM REGION 3545 (S10W90) AT 14/1713UT, HOWEVER NO X-RAY BURST WAS RECORDED. REGION 3550 (N04E15) HAS CONTINUED TO GROW AND IS NOW A C-TYPE GROUP. REGION 3550 HAS PRODUCED FIVE SMALL SUB FLARES, NO X-RAY REPORTED. NEW REGIONS TODAY ARE 3551 (S09E44), C-TYPE, AND 3552 (N11E78) A SIMPLE H-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL DURING THIS FORECAST.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THIS PERIOD. THE FIELD IS EXPECTED TO BE QUIET ON 15 JAN THEN UNSETTLED DURING THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 JAN-17 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JAN 135

PREDICTED 15 JAN-17 JAN 137/139/143

90 DAY MEAN 14 JAN 204

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JAN 004/004

ESTIMATED AFR/AP 14 JAN 005/005

PREDICTED AFR/AP 15 JAN-17 JAN 008/008-012/015-010/012

SOLTERWARN

BT