

HFUS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 340A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL. REGION 4014 (N07E13) WHICH PRODUCED THE ONLY M EVENT THAT COULD BE OPTICALLY CORRELATED REMAINS DYNAMIC AND THREATENING IN APPEARANCE. THE PLAGE IS OFTEN NEAR FLARE INTENSITY WHEN NOT ACTUALLY FLARING. THE SPOT GROUP CONTINUES ITS ERRATIC DEVELOPMENT. REGION 4007 (S15W68) HAS CEASED ITS SPOT REORGANIZATION BUT THE PLAGE IS OFTEN FLARE BRIGHT. REGION 4012 (N12E03) APPEARS TO BE IN AN IRREVERSIBLE DECAY. THE OTHER DISK FEATURES HAVE NOT CHANGED MUCH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY LEVELS ARE EXPECTED TO REMAIN RELATIVELY CONSTANT. REGION 4014 SHOULD CONTINUE TO PRODUCE M CLASS FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. A CORONAL TRANSIENT IDENTIFIED ON 3 DEC SHOULD BRING ACTIVE CONDITIONS LATER TODAY THAT ARE EXPECTED TO PERSIST THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 07 DEC-09 DEC

CLASS M 95/95/95

CLASS X 20/20/05

PROTON 30/30/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 DEC 216

ESTIMATED 06 DEC 221

PREDICTED 07 DEC-09 DEC 223/224/223

90 DAY MEAN 05 DEC 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 DEC 011 AP 05 DEC 015

ESTIMATED AFR 05 DEC 010 AFR/AP 06 DEC 007/015

PREDICTED AFR/AP 07 DEC-09 DEC 015/020-018/020-015/010

SOLTERWARN

BT

HXUS BOU 061300

PREDM 09507 09508 09509

PREDX 02007 02008 00509

PREDP 03007 03008 00509

PCAF 00207

TENCM 22307 22408 22309

AFRED 01507 01808 01509

AFAPF 02007 02008 01009

KKK 22244 33333 44433

BT

HFUS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 340B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY WAS LOW FOR THIS PERIOD, BUT AN M2 EVENT OCCURRED AT 2106Z FROM AN UNIDENTIFIED REGION EVEN WITH OPTICAL OBSERVATIONS AVAILABLE. IT IS ASSUMED THE SOURCE IS EITHER NE OR SE LIMB WHERE IMPORTANT REGIONS ARE EXPECTED. THE LARGEST EVENT UP TO 2100Z WAS C8/1B FROM REGION 4012(N13W04) WHERE THERE HAS BEEN RAPID SPOT DECAY AND STRONG INTERACTION WITH NEIGHBORING REGIONS. NUMEROUS SMALLER FLARES HAVE OCCURRED IN REGION 4014(N05E05) WHERE A DELTA CONFIGURATION HAS FORMED AGAIN. THIS REGION IS NOT INCREASED IN AREA, BUT IT CONTINUES TO FORM NEW SPOTS AS OTHERS DECAY AND/OR COALESCE. RAPID GROWTH IN SMALL NEW REGION 4019(S23W34) RESULTED IN A C5/1B EVENT AT 2020Z. LARGE SINGLE SPOTS HAVE ROTATED INTO VIEW AT S05E71(REGION 4020) AND S17E74(REGION 4021). FLARE ACTIVITY HAS CONTINUED TO BE ABSENT FROM REGION 4007 (S15W76) IN SPITE OF ITS LARGE AND COMPLEX SPOT GROUP WITH A DELTA CONFIGURATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH CONTINUED CLASS M ACTIVITY FROM THE 4010/4012/4014 COMPLEX. ADDITIONAL EVENTS MAY OCCUR FROM EAST LIMB REGIONS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. UNSETTLED CONDITIONS ARE EXPECTED TOMORROW, FOLLOWED BY ACTIVE CONDITIONS 8-9 DECEMBER DUE TO CORONAL TRANSIENT ACTIVITY ON 3 DECEMBER.

III. EVENT PROBABILITIES 07 DEC-09 DEC

CLASS M 95/95/95

CLASS X 10/10/05

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 DEC 217

PREDICTED 07 DEC-09 DEC 210/205/200

90 DAY MEAN 06 DEC 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 DEC 009/014

ESTIMATED AFR/AP 06 DEC 003/006

PREDICTED AFR/AP 07 DEC-09 DEC 015/020-018/020-015/010

SOLTERWARN

BT