

HFUS 1 BOU 191300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 19 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 19/1200Z: SOLAR ACTIVITY HAS CONTINUED MODERATE. VERY LITTLE OPTICAL DATA HAVE BEEN RECEIVED TODAY. REGION 3994 (S12E07) PRODUCED AN M1/1B AT 19/0735Z WITH MINOR RADIO BURSTS. THIS REGION HAS DOUBLED IN BOTH AREA AND SUNSPOT NUMBER DURING THE LAST 24 HOURS. MOST OF THIS GROWTH HAS OCCURRED IN THE NORTH CENTRAL PORTION OF 3994 WHERE A STRONG ARCH FILAMENT SYSTEM IS PRESENT IMPLYING CONTINUED EMERGENCE. RECENT FLARES HAVE OCCURRED IN THIS AREA AND IN OTHER PORTIONS OF 3994 INDICATING MULTIPLE INSTABILITIES. REGION 3987 (S12W57) CONTINUES ITS SLOW DECLINE AND ONLY TWO CLASS C SUBFLARES HAVE BEEN OBSERVED HERE. REGIONS 3997 (S08E55) AND 3998 (N11E63) ARE BOTH CLASS C GROUPS WITH MODERATE SIZE LEADER AND SMALL TRAILER SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE MODERATE FOR THE FORECAST PERIOD WITH REGION 3994 BECOMING THE PRINCIPAL CLASS M FLARE PRODUCER. REGION 3987 SHOULD STILL ACCOUNT FOR INFREQUENT CLASS M FLARES AND AN ISOLATED MAJOR FLARE FROM EITHER REGION IS POSSIBLE. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN DURING THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. UNSETTLED TO SLIGHTLY ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO OCCUR DURING THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 80/80/70

CLASS X 15/15/10

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOV 176

ESTIMATED 19 NOV 180

PREDICTED 20 NOV-22 NOV 175/170/160

90 DAY MEAN 18 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 17 NOV 004 AP 18 NOV 013

ESTIMATED AFR 18 NOV 010 AFR/AP 19 NOV 009/012

PREDICTED AFR/AP 20 NOV-22 NOV 015/015-016/015-015/015

SOLTERWARN

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HFUS 3 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ACTIVITY THIS PERIOD HAS CONSISTED OF NUMEROUS C CLASS SUBFLARES FROM REGIONS 3994(S13W00), 3997(S08E49), 3987(S12W66), AND 3998(N12E60). REGION 3994 HAS DEVELOPED A DELTA, DISPLAYED AFS AND HAS BEEN NEAR FLARE INTENSITY IN H ALPHA CONTINUOUSLY AS HAS BEEN REGION 3998. REGION 3994 HAS ONCE AGAIN DOUBLED IN AREA IN WHITE LIGHT AND SPOT COUNT CONTINUES TO INCREASE. REGION 3987 HAS DECAYED SIGNIFICANTLY AND IS NOW BETA GAMMA MAGNETICALLY WITH RELAXING GRADIENTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE MODERATE WITH MOST ACTIVITY EXPECTED FROM REGION 3994. THIS REGION APPEARS CAPABLE NOW OF AN ISOLATED MAJOR FLARE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO NEAR QUIET IN RECENT HOURS. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 80/80/70

CLASS X 15/15/10

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 NOV 187

PREDICTED 20 NOV-22 NOV 192/196/196

90 DAY MEAN 19 NOV 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 NOV .007/.013

ESTIMATED AFR/AP 19 NOV .006/.009

PREDICTED AFR/AP 20 NOV-22 NOV .015/.015-.016/.015-.015/.015

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