

HXUS 1 BOU 051300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 309A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 05 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/1200Z TO 05/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY SIX SMALL C-CLASS XRAY EVENTS REPORTED. REGION 3969 (S11W81) PRODUCED THE LARGEST EVENTS, A C4/1B FLARE AT 1410Z AND SEVERAL SMALL SUBFLARES, HOWEVER IT REMAINS A SMALL SIMPLE REGIONS. REGION 3974 (N05E35) IS THE MOST INTERESTING REGION ON THE DISK BECAUSE IT CONTAIN A WEAK BUT COMPLEX MAGNETIC STRUCTURE. SLIGHT GROWTH IS REPORTED BUT IT HAS NOT BEEN ACTIVE TODAY. ALL OTHER REGIONS ARE STABLE OR DECLINING. A SMALL NEW REGION 3976 (N13E66) WAS NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH NO REGIONS CURRENTLY ON THE DISK CAPABLE OF SIGNIFICANT ACTIVITY AND NO PREVIOUSLY ACTIVE REGIONS DUE TO RETURN IN THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24 HOURS. A LARGE PORTION OF A NORTHERN FILAMENT FROM N37E33 TO N25E01 DISAPPEARED ON 04 NOV BETWEEN 1430Z AND 1730Z, HOWEVER NO MAJOR RESTSTRUCTURING IN THE NEUTRAL LINE HAS BEEN REPORTED. ACTIVE CONDITIONS ARE EXPECTED ON 08 NOV FROM THIS FILAMENT. ACTIVE CONDITIONS ARE ALSO EXPECTED 06-07 NOV FROM A CORONAL HOLE WHICH PASSED CENTRAL MERIDIAN ON 02 NOV.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 NOV 143

ESTIMATED 05 NOV 141

PREDICTED 06 NOV-08 NOV 139/137/135

90 DAY MEAN 04 NOV 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 03 NOV 014 AP 04 NOV 010

ESTIMATED AFR 04 NOV 008 AFR/AP 05 NOV 012/015

PREDICTED AFR/AP 06 NOV-08 NOV 025/020-019/020-025/045

SÖLTERWARN

BT

HXUS BOU 051300

PREDM 00506 00507 00508

PREDX 00106 00107 00108

PREDP 00106 00107 00108

PCAF 00106

TENCM 13906 13707 13508

AFRED 02506 01907 02508

AFAPP 02006 02007 04508

KKK 23344 33333 44433

BT

HFUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 309B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH NO CLASS C FLARES BEING OBSERVED DURING THE PERIOD. SLIGHT GROWTH HAS BEEN OBSERVED IN SEVERAL SMALL REGIONS. TWO SMALL NEW REGIONS HAVE BEEN NUMBERED TODAY - 3978 (N26E67) AND 3977 (S09E31). REMNANTS OF THE LARGE FILAMENT DISRUPTION IN THE NORTHEAST QUADRANT REMAIN VISIBLE TODAY BUT THESE HAVE BEEN OBSERVED TO BE SLOWLY FADING. ACTIVE SURGING HAS RECENTLY BEEN OBSERVED AT NE05.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE NEXT THREE DAYS. THE REGION SURGING ON THE NORTHEAST LIMB IS A NEW REGION SO IT MAY BE IN A GROWTH STAGE. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN TO THE EAST LIMB DURING THE FORECAST PERIOD.

III. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS CONTINUED UNSETTLED DURING THE PERIOD. UNSETTLED CONDITIONS SHOULD CONTINUE THROUGH TODAY. ACTIVE LEVELS ARE FORECAST FOR 06-08 NOV IN RESPONSE TO A HIGH SPEED SOLAR WIND STREAM. MINOR STORM CONDITIONS ARE EXPECTED ON 08-09 NOV AS A RESULT OF YESTERDAY'S FILAMENT ERUPTION.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 NOV 139

PREDICTED 06 NOV-08 NOV 137/135/133

90 DAY MEAN 05 NOV 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 NOV 005/010

ESTIMATED AFR/AP 05 NOV 008/012

PREDICTED AFR/AP 06 NOV-08 NOV 025/020-019/020-030/045

SOLTERWARN

BT