

BT
HFUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 318A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 NOV 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY WAS HIGH DURING THE PAST 24 HOURS. REGIONS 3456 (N17E03), 3451(N13W39) AND 3461(S04E63) HAVE PRODUCED M CLASS FLARES. REGION 3451 IS THE MOST COMPLEX OF THESE THREE REGIONS WITH SEVERAL MAGNETIC DELTA CONFIGURATIONS AND A NEUTRAL LINE THAT EXHIBITS FREQUENT POINT BRIGHTENINGS. REGION 3456 IS THE LEAST COMPLEX OF THE THREE AND HAS APPARENTLY STABILIZED IN GROWTH. REGION 3461 IS QUITE SIMILAR IN APPEARANCE TO 3456 AT THIS POINT BUT APPEARS TO HAVE PLAGE EXTENDING TO THE LIMB. THE REMAINING EIGHT REGIONS ARE BASICALLY SIMPLE EXCEPT FOR 3450 (S19W51) WHICH IS A BETA GAMMA MAGNETICALLY BUT IS SLOWLY DECAYING. F I B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE DURATION OF THIS FORECAST PERIOD. II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS QUIET UNTIL LATE ON 13 NOVEMBER WHEN UNSETLED CONDITIONS BEGAN. UNSETLED TO ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

L III. EVENT PROBABILITIES 15 NOV-17 NOV

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 NOV 221

ESTIMATED 14 NOV 218

PREDICTED 15 NOV-17 NOV 216/210/205

90 DAY MEAN 13 NOV 230

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 NOV 026 AP 13 NOV 006

ESTIMATED AFR 13 NOV 005 AFR/AP 14 NOV 015/017

PREDICTED AFR/AP 15 NOV-17 NOV 013/025-018/020-015/015

SOLTERWARN

BT

ABOVE
So ray
but
11/01
has flares
11/01

FXUS BOU 141300

PREDM 09515 09516 09517

PREDX 03015 03015 03017

PREDP 03015 03016 03017

PCAF 00215

TENCM 21615 21016 20517

AFRED 01815 01816 01517

AFAPF 02515 02016 01517

KKK 23344 33333 34433

BT

HEUS 3 BOU 142200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 313B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. NUMEROUS SUBFLARES HAVE BEEN REPORTED FROM 7 SEPARATE REGIONS. REGION 3454 (N03W51) WHICH HAS EXHIBITED MARKED PENUMBRAL GROWTH IN THE LEADER PORTION, PRODUCED 9 SMALL FLARES AND REMAINS AT OR NEAR FLARE INTENSITY. THREE NEW REGIONS WERE NUMBERED. THEY ARE 3462 (S18E12) AND 3463 (N13E13), BOTH B TYPE GROUPS WHICH FORMED ON THE DISK, AND 3464 (S04E68) WHICH IS APPARENTLY A SEPARATE REGION FOLLOWING 3461 (S04E56).

IR. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE DURATION OF THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE LEVELS DURING THIS REPORTING PERIOD. THIS ACTIVITY IS ATTRIBUTED TO THE EFFECTS OF A MAJOR FLARE ON 12 NOVEMBER. GEOMAGNETIC CONDITIONS ARE EXPECTED TO REMAIN AT HIGH-UNSETTLED TO ACTIVE LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 NOV-17 NOV

CLASS M 95/95/95

CLASS X 30/30/30

PROTON 30/30/30

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 NOV 212

PREDICTED 15 NOV-17 NOV 211/210/205

90 DAY MEAN 14 NOV 230

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 NOV 004/005

ESTIMATED AFR/AP 14 NOV 018/017

PREDICTED AFR/AP 15 NOV-17 NOV 013/025-018/020-015/015

SOLTERWARN

BT

18/11/81
18/11/25
18/11/27

HYUS BOU 142200

PREDM 09515 09516 09517

PREDX 03015 03016 03017

PREDP 03015 03016 03017

PCAFPT 00215

TENCM 21115 21015 20517

AFRRED 01815 01816 01517

AFAPF 02515 02015 01517

BT