

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 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
18/1200Z TO 19/1200Z: SOLAR ACTIVITY REMAINS LOW. THE LARGEST
EVENT DURING THE PAST 24 HOURS WAS A C3/ERUPTIVE PROMINENCE AT
19/0248Z MAXIMUM. THE EPL (LOCATED AT N17W90) WAS ASSOCIATED
WITH DEPARTING REGION 3451. A MODERATE TYPE II SWEEP WAS
FOLLOWED BY A MOVING TYPE IV, INDICATING A FAIRLY ENERGETIC
FLARE FROM BEHIND THE LIMB. REGIONS 3451 (S04W08) AND 3467
(S17W42) PRODUCED MOST OF THE DISK ACTIVITY, BUT PRIMARILY
SUBFLARES. REGION 3457 DID PRODUCE A C4/1N AT 18/1651Z MAXIMUM.
THIS REGION IS STILL GROWING SLOWLY, BUT IS EXPECTED TO
STABILIZE IN THE NEXT 12 HOURS. REGION 3451 IS DECLINING
SLOWLY. EASTERN HEMISPHERE REGIONS HAVE REMAINED UNIMPRESSIVE
AS WELL AS THE EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE
LOW. REGION 3457 NOW APPEARS TO BE THE ONLY DISK REGION WITH
ANY M-CLASS FLARE POTENTIAL AT ALL, AND ONLY VERY ISOLATED
EVENTS AT THAT. SOLAR INDICES SHOULD CONTINUE TO FALL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS
ACTIVE DURING THE LAST 12 HOURS OF 18 NOV, BUT THEN MANAGED TO
FINALLY SETTLE DURING THE FIRST HALF OF TODAY. UNSETTLED LEVELS
ARE EXPECTED FOR THE REMAINDER OF THIS ZULU DAY, WITH EVEN
QUIETER CONDITIONS FORECAST FOR TOMORROW. ACTIVITY COULD PICK
UP AGAIN ON 21 NOV WITH THE INFLUENCE OF A SMALL CORONAL HOLE
COMBINED WITH THE AFFECTS OF THE M2/1B FLARE IN REGION 3457 ON
18/0416Z.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 NOV 167

ESTIMATED 19 NOV 160

PREDICTED 20 NOV-22 NOV 150/143/144

90 DAY MEAN 18 NOV 227

V. GEOMAGNETIC A INDICES

OBSERVED AFR 17 NOV 028 AP 18 NOV 022

ESTIMATED AFR 18 NOV 022 AFR/AP 19 NOV 012/015

PREDICTED AFR/AP 20 NOV-22 NOV 007/014-015/012-015/012

SOLTERWARN

BT

HXUS BOU 191300

PREDM 03020 02021 02022

PREDX 00120 00121 00122

PREDP 00120 00121 00122

PCAF 00120

PFNCM 15020 14321 14422

AFRED 00720 01521 01522

AFAPF 01420 01221 01222

KKK 33222 22222 24333

BT

NNNNZCZGZLZOH

RB0U

HFUS 3 B0U 192200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 323B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
19/1200Z TO 19/2100Z: SOLAR ACTIVITY WAS LOW FOR THE PAST 9
HOURS. REGION 3467 (S17W50) HAS NOT GROWN APPRECIABLY SINCE
EARLY TODAY. ITS SPOT GROUP IS A SIMPLE CLASS D GROUP. REGION
3471 (N13E10) IS GROWING AND MAY HAVE A RUDIMENTARY DELTA
CONFIGURATION. RADIO SCANS SHOW A QUIET EAST LIMB.

IB. SOLAR ACTIVITY FORECAST: ACTIVITY IS EXPECTED TO REMAIN LOW
FOR THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED FOR THE PAST NINE HOURS. CONDITIONS ARE EXPECTED
TO BECOME QUIET BEFORE ACTIVE CONDITIONS OCCUR ON 21 NOV AS A
RESULT OF A CORONAL HOLE RELATED DISTURBANCE.

III. EVENT PROBABILITIES 20 NOV-22 NOV

CLASS M 30/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 12.7 CM FLUX

OBSERVED 19 NOV 161

PREDICTED 20 NOV-22 NOV 150/143/144

90 DAY MEAN 19 NOV 226

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 NOV 024/024

ESTIMATED AFR/AP 19 NOV 012/015

PREDICTED AFR/AP 20 NOV-22 NOV 007/013-015/015-015/015

SOLTERWARN

BT

NNNNZ

2152

HR001 APLM 192150

RADOP

94332 11119 30101

11111 22150 07/77 99899