

HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 331A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 27 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN
M2/2B FLARE OCCURRED AT 1621Z FROM REGION 3478 (N12E01) AND AN
M1/1B FLARE OCCURRED AT 1946Z FROM REGION 3477 (S05E49). NO
SIGNIFICANT RADIO BURSTS OR SWEEPS ACCOMPANIED THE FLARES.
BOTH REGIONS ARE CONTINUING TO GROW BUT NOT AS RAPIDLY AS
EARLIER IN THE PERIOD. REGION 3477 IS MORE MAGNETICALLY
COMPLEX BUT BOTH ARE STILL BASICALLY BIPOLAR. NEW REGION 3480
(S22E08) HAS EMERGED AS A C-TYPE GROUP. ANOTHER NEW REGION MAY
BE EMERGING SOUTHEAST OF 3477.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW BUT WITH AN INCREASED PROBABILITY OF ISOLATED M-CLASS
ACTIVITY FROM 3477 AND 3478. AT PRESENT NEITHER REGION
POSSESSES CHARACTERISTICS FAVORABLE FOR MAJOR FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET TO SLIGHTLY UNSETTLED FOR THE PAST 24 HOURS. THE
FIELD IS NOW EXPECTED TO REMAIN MOSTLY QUIET WITH THE
POSSIBILITY OF UNSETTLED CONDITIONS ON 29, 30 NOV IN RESPONSE
TO THE SIGNIFICANT FLARES ON 26 NOV.

III. EVENT PROBABILITIES 28 NOV-30 NOV

CLASS M 40/50/50

CLASS X 01/01/01

FRCTCN 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 NOV 182

ESTIMATED 27 NOV 200

PREDICTED 28 NOV-30 NOV 211/216/221

90 DAY MEAN 26 NOV 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 NOV 020 AP 26 NOV 008

ESTIMATED AFR 26 NOV 008 AFR/AP 27 NOV 008/012

PREDICTED AFR/AP 28 NOV-30 NOV 007/010-012/010-014/012

SOLTERWARN

BT

HXUS BOU 271300

PREDM 04028 05029 05030

PREDX 00128 00129 00130

FREDP 00128 00129 00130

FCAFT 00128

TENCM 21128 21629 22130

AFRED 00728 01229 01430

AFAPF 01028 01029 01230

KKK 22222 22222 23332

BT

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 331B

JCINT USAF/NCAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS
PERIOD. REGION 3477 (S08E44) CONTINUES TO INCREASE IN BOTH SIZE
AND MAGNETIC COMPLEXITY AND NOW CONTAINS TWO DELTAS. REGION
3478 (N12W04) ALSO IS GROWING IN SIZE AND HAS A ARCH FILAMENT
SYSTEM. NEW REGION TCDAY 3481 (S14E62) SIMPLE C-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW WITH REGION 3477 HAVING THE BEST CHANCE FOR M-CLASS
ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET TO SLIGHTLY UNSETTLED FOR THE THIS PERIOD. THE FIELD
IS EXPECTED TO REMAIN GENERALLY QUIET UNTIL 29-30 NOV WHEN
UNSETTLED CONDITIONS ARE EXPECTED.

III. EVENT PROBABILITIES 28 NOV-30 NOV

CLASS M 40/50/50

CLASS X 01/01/01

FRCTN 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 NOV 196

PREDICTED 28 NOV-30 NOV 211/216/221

90 DAY MEAN 27 NOV 218

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 NOV 009/008

ESTIMATED AFR/AP 27 NOV 008/008

PREDICTED AFR/AP 28 NOV-30 NOV 007/010-012/010-014/012

SOLTERWARN

BT

HXUS BCU 272200

PRFDM 04028 05029 05030

PREDX 00128 00129 00130

FREDP 00128 00129 00130

FCAFT 00128

TENCM 21128 21629 22130

AFRED 00728 01229 01430

AFAPF 01028 01029 01230

BT