

HFUS 1 BOU 161300
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 016A
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 1300Z 16 JAN 1982
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
 24 HOURS. REGIONS 3549 (S10E05) AND 3550(N02W08) CONTINUE TO
 PRODUCE SUBFLARES ALTHOUGH 3550 IS THE ONLY REGION TO BE
 RECENTLY ASSOCIATED WITH C-CLASS XRAY ACTIVITY. REGIONS 3549
 AND 3550 ARE BOTH STILL GROWING IN WHITE LIGHT ESPECIALLY IN
 THEIR LEADER GROUPS. 3549 IS EXHIBITING SOME SPOT ROTATION AND
 HAS RETAINED ITS MAGNETIC COMPLEXITY BUT 3550 IS REPORTED TO BE
 A SIMPLE BIPOLE TODAY. NEW REGION 3554(S15W08) IS EMERGING
 RAPIDLY JUST WEST OF 3549. MINOR SURGING HAS BEEN OBSERVED ON
 THE EAST LIMB AT NE03 AND SE25.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
 REMAIN LOW BUT WITH AN INCREASING PROBABILITY OF SIGNIFICANT
 ACTIVITY FROM EITHER REGION 3549 OR 3550.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
 BEEN UNSETTLED FOR THE PAST 24 HOURS. THE FIELD IS EXPECTED TO
 REMAIN UNSETTLED TO OCCASIONALLY ACTIVE FOR THE NEXT THREE DAYS
 ON THE BASIS OF AN APPARENT RESTRUCTURING OF LARGE-SCALE
 SOUTHERN HELIOMAGNETIC FIELDS WHICH WAS ACCOMPANIED BY
 FILAMENT ERUPTIONS BETWEEN JANUARY 13-15.
 III. EVENT PROBABILITIES 17 JAN-19 JAN
 CLASS M 30/35/40
 CLASS X 01/01/01
 PROTON 01/01/01
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 15 JAN 141
 ESTIMATED 16 JAN 145
 PREDICTED 17 JAN-19 JAN 150/155/160
 90 DAY MEAN 15 JAN 202
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR 14 JAN 003 AP 15 JAN 012
 ESTIMATED AFR 15 JAN 012 AFR/AP 16 JAN 012/012
 PREDICTED AFR/AP 17 JAN-19 JAN 012/012-015/015-010/010
 SOLTERWARN
 BT

HXUS BOU 161300
 PREDM 03017 03518 04019
 PREDX 00117 00118 00119
 PREDP 00117 00118 00119
 PCAFT 00117
 TENCN 15017 15518 16019
 AFRED 01217 01518 01019
 AFAPF 01217 01518 01019
 KKK 33333 32223 34332
 BT

HFUS 3 BOU 162200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 016B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS CONTINUED AT A LOW
LEVEL THIS PERIOD. REGIONS 3549 (S10E01) AND 3550 (N02W13) HAVE
BOTH PRODUCED FOUR SUB-FLARES THIS PERIOD. THE LARGEST EVENT
WAS A C2/SN FROM 3550 AT 16/2026UT. REGIONS 3549 AND 3550
CONTINUE AS THE LARGEST AND MOST COMPLEX GROUPS ON THE VISIBLE
DISK. NEW REGIONS TODAY ARE 3555 (N26W11), 3556 (N07E46) AND
3557 (N05E77) ALL SIMPLE GROUPS AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
CONTINUE AT A LOW LEVEL UNTILL THE MIDDLE OF THE FORECAST
PERIOD WHEN REGIONS 3549 AND 3550, IF GROWTH CONTINUES, SHOULD
BE CAPABLE OF A ISOLATED M-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT ACTIVE TO UNSETTLED LEVELS DURING THIS PERIOD. THE
FIELD IS EXPECTED TO REMAIN UNSETTLED TO OCCASIONALLY ACTIVE
FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 17 JAN-19 JAN

CLASS M 30/35/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JAN 152

PREDICTED 17 JAN-19 JAN 165/175/180

90 DAY MEAN 16 JAN 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JAN 015/012

ESTIMATED AFR/AP 16 JAN 012/012

PREDICTED AFR/AP 17 JAN-19 JAN 012/012-015/015-010/010

SOLTERWARN

BT

HXUS BOU 162200

PREDM 03017 03518 04019

PREDX 00117 00118 00119

PREDP 00117 00118 00119

PCAFT 00117

TENCM 16517 17518 18019

AFRED 01217 01518 01019

AFAPF 01217 01518 01019

BT