

HFUS 1 BOU 161300
 FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
 SDF NUMBER 106A
 JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
 ISSUED 1300Z 16 APR 1982
 IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
 15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY VERY
 SMALL C-CLASS SUBFLARES REPORTED. REGION 3688 (N16W55) PRODUCED
 FOUR SUBFLARES INCLUDING THE LARGEST FLARE OF THE DAY - A C2/SN
 AT 16/0229Z. THIS REGION CONTINUES TO DECAY SLOWLY AND IS NOW A
 SIMPLE BIPOLAR REGION. NEW REGION 3696 (S17E15) IS THE ONLY
 GROWING REGION ON THE DISK. IT DEVELOPED ON THE DISK 14 APRIL
 AND NOW HAS A SPOT GROUP OF CLASS/AREA D/100, HOWEVER IT HAS
 ONLY PRODUCED ONE FLARE - A SF AT 15/1413Z. ALL OTHER REGIONS
 ARE STABLE OR DECLINING.
 IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
 REMAIN LOW WITH AN ISOLATED M-CLASS EVENT POSSIBLE FROM REGION
 3688 AS IT DECAYS OR FROM REGION 3696 IF IT CONTINUES TO GROW
 RAPIDLY.
 II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
 BEEN UNSETTLED. ACTIVE CONDITIONS ARE EXPECTED ON 17 APR
 FOLLOWED BY UNSETTLED CONDITIONS FOR THE REMAINDER OF THE
 PERIOD.
 III. EVENT PROBABILITIES 17 APR-19 APR
 CLASS M 30/30/30
 CLASS X 01/01/01
 PROTON 01/01/01
 PCAF GREEN
 IV. OTTAWA 10.7 CM FLUX
 OBSERVED 15 APR 151
 ESTIMATED 16 APR 148
 PREDICTED 17 APR-19 APR 146/146/151
 90 DAY MEAN 15 APR 203
 V. GEOMAGNETIC A INDICES
 OBSERVED AFR 14 APR 007 AP 15 APR 010
 ESTIMATED AFR 15 APR 009 AFR/AP 16 APR 007/015
 PREDICTED AFR/AP 17 APR-19 APR 018/023-012/014-010/014
 SOLTERWARN
 BT

HXUS BOU 161300
 PREDM 03017 03018 03019
 PREDX 00117 00118 00119
 PREDP 00117 00118 00119
 PCAFT 00117
 TENCM 14617 14618 15119
 AFRED 01817 01218 01019
 AFAPF 02317 01418 01419
 KKK 33354 32334 43332
 BT

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 106B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 APR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW THIS PERIOD. ONLY ONE OPTICAL EVENT HAS BEEN OBSERVED A C1/SB FROM REGION 3688 (N19W66) AT 1417UT, MINOR RADIO WAS OBSERVED WITH THE EVENT. REGION 3696 (S17E05) HAS SHOWN MINOR GROWTH WITH BRIGHT POINTS BEING REPORTED. THE OTHER REGIONS ARE REPORTED TO BE STABLE OR IN A STATE OF DECAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED CONTINUE LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETTLED UNTIL 1703UT WHEN A 12 GAMMA SUDDEN COMMENCEMENT WAS OBSERVED. THE FIELD HAS BEEN ACTIVE FROM THAT TIME. THE SSC IS BELIEVED TO BE FROM THE M1/2B EVENT OF 14 APRIL 0258UT. THE FIELD IS EXPECTED TO BE ACTIVE UNTIL 18 APRIL WHEN UNSETTLED CONDITIONS ARE EXPECTED TO RETURN.

III. EVENT PROBABILITIES 17 APR-19 APR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 APR 147

PREDICTED 17 APR-19 APR 146/146/151

90 DAY MEAN 16 APR 203

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 APR 009/010

ESTIMATED AFR/AP 16 APR 013/015

PREDICTED AFR/AP 17 APR-19 APR 018/023-012/014-010/014

SOLTERWARN

BT

HXUS BOU 162200

PREDM 03017 03018 03019

PREDX 00117 00118 00119

PREDP 00117 00118 00119

PCAFT 00117

TENCM 14617 14618 15119

AFRED 01817 01218 01019

AFAPF 02317 01418 01419

BT