

HFXS 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 BIPOLE 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 UNSETLED. ACTIVE CONDITIONS ARE EXPECTED ON 17 APR FOLLOWED BY UNSETLED 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

PCAF 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 FORECST 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

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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