

HFUS3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 169

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 JUN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/2100
TO 17/2100Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24
HOURS. REGION 4513 HAS PRODUCED SEVERAL SMALL X RAY EVENTS
TODAY THE LARGEST WAS A B5 AT 0503UT. REGION 4513 (S07E09) HAS
REMAINED STABLE IN SIZE HOWEVER THE MAGNETIC GRADIENT, IN THE
MIDDLE OF THE GROUP, HAS INCREASED FROM YESTERDAY. THE LARGE
FILAMENT WHICH HAS DOMINATED THE NORTHERN HEMISPHERE DURING THE
PAST TEN DAYS LOST MOST ITS EASTERN PORTION (N40W20) TO
(N33W63) TODAY. NEW REGION OBSERVED TODAY IS 4418 (N19W15) A
SIMPLE A TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW DURING THIS FORECAST PERIOD. REGION 4413 MAY BEGIN
TO PRODUCE M CLASS EVENTS IF RAPID CHANGE OCCURS IN SIZE OR
MAGNETIC GRADIENT STRENGTH.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 16/2100Z TO 17/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO UNSETTLED DURING THIS
PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE MAGNETIC FIELD IS
EXPECTED TO BE AT ACTIVE TO UNSETTLED LEVELS DURING THE
FORECAST PERIOD. THE ACTIVITY SHOULD BE DUE TO A LARGE NORTHERN
CORONAL HOLE. THE FILAMENT WHICH DISAPPEARED TODAY IS NOT
THOUGHT TO BE IN POSITION TO PRODUCE STORM LEVEL ACTIVITY
HOWEVER SOME MINOR INCREASE IN ACTIVITY MAY BE OBSERVED ON 20
TO 21 JUNE.

III. EVENT PROBABILITIES 18 JUN-20 JUN

CLASS M 10/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUN 109

PREDICTED 18 JUN-20 JUN 109/110/110

90 DAY MEAN 17 JUN 123

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JUN 034/043

ESTIMATED AFR/AP 17 JUN 012/020

PREDICTED AFR/AP 18 JUN-20 JUN 020/020-015/020-020/025

SOLTERWARN

BT