

HFUS 1 BOU 021300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 306A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 02 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. REGION 3966 (N05W46) HAS PROVIDED THE MOST FLARE
ACTIVITY INCLUDING SEVERAL C-CLASS X-RAY EVENTS, BUT IT IS
REPORTED TO BE SLOWLY DECLINING IN WHITE LIGHT, H-ALPHA, AND
MAGNETIC COMPLEXITY. THIS GROUP HAS APPARENTLY LOST THE DELTA
MAGNETIC CONFIGURATION THAT IT POSSESSED YESTERDAY. REGION 3961
(S08W74) IS ALSO SIMPLIFYING ALTHOUGH IT HAS EXHIBITED MINOR
FLARE ACTIVITY, ARCH FILAMENTS, AND AN ACTIVE DARK FILAMENT.
THE CLUSTER OF NEW REGIONS ON THE NORTHEAST LIMB HAVE NOT YET
ROTATED FAR ENOUGH ONTO THE DISK FOR ACCURATE ANALYSIS.
HOWEVER, REGION 3970 (N22E54) HAS PRODUCED SEVERAL SUBFLARES
AND IS CLOSELY ASSOCIATED WITH REGION 3973 (N24E67). REGION
3974 (N05E71) IS THE RETURN OF OLD REGION 3944 WHICH WAS QUIET
LAST ROTATION. LIMB SURGING AND AN IMPRESSIVE DARK SURGE ON THE
DISK HAVE ACCOMPANIED THE LIMB TRANSIT OF THIS C-TYPE GROUP.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW. REGION 3966 COULD PRODUCE A SIGNIFICANT FLARE BEFORE
EXITING, BUT THAT POSSIBILITY SEEMS LESS LIKELY AT THIS TIME.
THE REGIONS ON THE NORTHEAST LIMB ARE INTERESTING BUT DO NOT
YET APPEAR THREATENING.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
FLUCTUATED FROM NEAR-QUIET TO MINOR STORM LEVELS DURING THE
PAST 24 HOURS. THE FIELD IS EXPECTED TO BE MOSTLY UNSETTLED
WITH OCCASIONAL PERIODS AT ACTIVE LEVELS FOR THE NEXT TWO DAYS
IN RESPONSE TO HIGH-SPEED SOLAR WIND EMANATING FROM A
LOW-LATITUDE SOUTHERN CORONAL HOLE. GENERALLY ACTIVE CONDITIONS
COULD COMMENCE ON THE LAST DAY OWING TO THE ENERGETIC WEST LIMB
FLARE ON 01 NOV.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 20/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 162

ESTIMATED 02 NOV 155

PREDICTED 03 NOV-05 NOV 145/135/130

90 DAY MEAN 01 NOV 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 OCT 030 AP 01 NOV 030

ESTIMATED AFR 01 NOV 030 AFR/AP 02 NOV 015/020

PREDICTED AFR/AP 03 NOV-05 NOV 015/020-015/020-019/015

SOLTERWARN

BT

RESPONDENT 022000 FOR TAPE

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

(S09W06).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMANETIC FIELD HAS

LEVELS DURING THE FORECAST PERIOD.

CLASS M 20/10/10

PROTON 01/01/01

IV. OTTAWA 10-7

OBSERVED 02 NOV 157

90 DAY MEAN 02 NOV 167

OBSERVED AFR/AP 01 NOV 028/030

PREDICTED AFR/AP 03 NOV-05 NOV 015/020-015/020-019/015

BT