

HFUS 1 BOU 021300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 033A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 02 FEB 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS REMAINED LOW. THE
LARGEST EVENT WAS A LONG-LIVED C5/SB IN REGION 4077 (S18E04)
WITH X-RAY MAXIMUM AT 1920Z. MINOR CENTIMETRIC RADIO BURSTS
OCCURRED WITH THIS FLARE. THOUGH REGION 4077 CONTINUES TO GROW
IN SUNSPOT SIZE AND HAS A DELTA CONFIGURATION, THE NEUTRAL LINE
REMAINS ESSENTIALLY STRAIGHT THROUGH THE REGION. THIS LACK OF
DEVELOPMENT OF A CONVOLUTED NEUTRAL LINE LESSENS THE CHANCE FOR
ENERGETIC FLARES. OTHER DISK REGIONS ARE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO
REMAIN LOW WITH A CHANCE FOR AN ISOLATED ENERGETIC FLARE FROM
REGION 4077.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED. THE FIELD IS EXPECTED TO REMAIN UNSETTLED WITH
A PERIOD AT ACTIVE LEVEL POSSIBLE ON 04 FEBRUARY DUE TO A MINOR
FILAMENT DISRUPTION.

III. EVENT PROBABILITIES 03 FEB-05 FEB

CLASS M 40/30/30

CLASS X 02/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 FEB 168

ESTIMATED 02 FEB 165

PREDICTED 03 FEB-05 FEB 162/156/152

90 DAY MEAN 01 FEB 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 JAN 012 AP 01 FEB 012

ESTIMATED AFR 01 FEB 013 AFR/AP 02 FEB 005/010

PREDICTED AFR/AP 03 FEB-05 FEB 012/010-012/020-010/015.

SOLTERWARN

BT