

HFUS 1 BOU 161400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 016A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 16 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200UT
TO 16/1200UT:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THERE WAS NO ORGANIZED PATTERN OF FLARE ACTIVITY. FOUR C-CLASS X-RAY EVENTS WERE ASSOCIATED WITH FLARES BUT THEY WERE FROM 4 DIFFERENT REGIONS. REGION 2882 (N06W37) IS THE MOST INTERESTING REGION ON THE DISK WITH NEW GROWTH IN WHITE LIGHT AND H ALPHA, AN ARCH FILAMENT SYSTEM, AND BETA-GAMMA MAGNETIC STRUCTURE. REGION 2894 (N05E31) IS ALSO DEVELOPING AND HAS AN ACTIVE SHARPLY KINKED INVERSION LINE. REGION 2899 (S21E61) IS TOO NEAR THE EAST LIMB FOR DEFINITIVE MAGNETIC ANALYSIS, BUT IT MAY POSSESS A MAGNETIC DELTA CONFIGURATION IN ITS LARGE LEADER SPOT. NEW REGION 2900 (N19E73) APPEARS TO BE A SIMPLE H-TYPE SPOT WITH LITTLE ASSOCIATED FLARE.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, BUT WITH INCREASING PROBABILITIES FOR ISOLATED M-CLASS X-RAY FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MODERATELY UNSETTLED DURING THE PAST 24 HOURS. CONDITIONS ARE EXPECTED TO BECOME ACTIVE TOMORROW IN RESPONSE TO A RADIO-RICH FLARE ON 14 JANUARY. UNSETTLED GEOMAGNETIC LEVELS WILL THEN PREDOMINATE FOR THE REMAINDER OF THE FORECAST:

III. EVENT PROBABILITIES: 17 JANUARY - 19 JANUARY

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 15 JANUARY 155

ESTIMATED 16 JANUARY 158

PREDICTED 17-19 JANUARY 160/163/166

30 DAY MEAN 15 JANUARY 210

V. GEOMAGNETIC INDICES

OBSERVED AFR 14 JANUARY 06 AP 15 JANUARY 07

ESTIMATED AFR 15 JANUARY 07 AFR/AP 16 JANUARY 11/12

PREDICTED AFR/AP 17-19 JANUARY 15/18 12/15 12/10

SOLTERWARN

BT

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 016

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 16 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200UT TO 16/2200UT:

SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PERIOD. VERY
LIMITED OPTICAL DATA HAS BEEN RECEIVED DUE TO WEATHER AND
TECHNICAL PROBLEMS AT THE VARIOUS SITES.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PERIOD. THE
FIELD IS EXPECTED TO BECOME ACTIVE TOMORROW IN RESPONSE TO A
RADIO-RICH FLARE ON 14 JANUARY. UNSETTLED CONDITIONS WILL THEN
PREDOMINATE FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 17-19 JAN

CLASS M 10/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 16 JAN 158

PREDICTED 17-19 JAN 160/163/166

30 DAY MEAN 16 JAN 210

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 15 JAN 08/07

ESTIMATED AFR/AP 16 JAN 12/12

PREDICTED AFR/AP 17-19 JAN 15/18 12/15 12/10

SOLTERWAR N

BT