

HFUS 1 BOU 021400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 033A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 02 FEBRUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

01/1200UT TO 02/1200UT:

SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. DURING THAT PERIOD THERE HAVE BEEN ONLY FOUR C-CLASS SUBFLARES OBSERVED, THREE OF THEM FROM REGION 2911 (S13W16). THERE ARE THREE OTHER REGIONS WHICH HAVE FLARED IN THE PAST FEW DAYS AND CONTINUE TO LOOK INTERESTING IN WHITE LIGHT. THEY ARE REGIONS 2916 (N16W04), 2918 (S12E04) AND 2923 (N19E25). ALL FOUR REGIONS MENTIONED ABOVE ARE CLEARLY DECAYING. A NEW REGION APPEARS TO BE EMERGING NEAR S14E46 THOUGH NO SPOTS HAVE BEEN SEEN YET. OTHERWISE, THE SOLAR DISK AND LIMBS ARE BENIGN.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. THE CHANCES OF EVEN A MODERATELY ENERGETIC FLARE (M-CLASS) ARE NOW SLIGHT. WE SEEM TO BE HEADED INTO ANOTHER LULL IN SOLAR ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE DURING THE PAST 24 HOURS. ACTIVE CONDITIONS (PERHAPS BRIEFLY TO MINOR STORM LEVELS) ARE STILL EXPECTED LATE THIS UT DAY OR ON 03 FEBRUARY. THE COMBINED EFFECTS OF THE PARALLEL-RIBBON HYDROFLARE OF 31/0111UT JANUARY, AN ASSOCIATED FILAMENT DISAPPEARANCE AND A WELL DEFINED CORONAL HOLE NEAR THE FLARE SITE LEAD TO THIS PREDICTION.

III. EVENT PROBABILITIES: 03 - 05 FEBRUARY 1981

CLASS M 15/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 01 FEBRUARY 214

ESTIMATED 02 FEBRUARY 211

PREDICTED 03-05 FEBRUARY 206/202/196

90 DAY MEAN 01 FEBRUARY 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 JAN 15 AP 01 FEB 11

ESTIMATED AFR 01 FEB 12 AFR/AP 02 FEB 15/18

PREDICTED AFR/AP 03-05 FEB 21/18 14/15 09/10

SOLTERWARN

BT

HFUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 033B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200UT 02 FEB 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
02/1200UT TO 02/2200UT:

SOLAR ACTIVITY HAS BEEN NEAR MODERATE LEVELS WITH TWO FLARES
OCCURRING. A C4/1N IN REGION 2916 (N15W10) OCCURRED AT 1540UT
AND A M1/2B IN REGION 2918 (S12W02), AN A TYPE REGION 2926
(S15E13), AS WELL AS AN H TYPE GROUP 2927 (N05E83) APPEARING
ON THE EAST LIMB, WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW. THE CHANCE OF FURTHER
ENERGETIC FLARES FROM REGIONS NOW BEING OBSERVED IS SLIGHT.

II. GEOPHYSICAL SUMMARY AND FORECAST:

ACTIVE CONDITIONS ARE BEING OBSERVED IN THE GEOMAGNETIC FIELD.
CONDITIONS ARE EXPECTED TO REMAIN ACTIVE UNTIL NEAR 03/1500UT,
WHEN UNSETTLED LEVELS SHOULD RETURN.

III. EVENT PROBABILITIES: 03-05 FEB

CLASS M 15/10/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 02 FEB 216

PREDICTED 03-05 FEB 216/216/216

90 DAY MEAN 02 FEB 206

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 FEB 13/11

ESTIMATED AFR/AP 02 FEB 23/22

PREDICTED AFR/AP 03-05 FEB 25/21 17/18 10/10

SOLTERWARN

BT