

HFUS 3 BOU 271400

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 362 A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1200UT 27 DEC 1980

I A. SOLAR ACTIVITY WAS MODERATE. AN M1/1B OCCURRED IN REGION 2855 (S23E15) REACHING A MAXIMUM AT 27/1018 UT. THIS EVENT WAS ACCCOMPANIED BY RADIO BURSTS AT NUMEROUS FREQUENCIES. THIS REGION DID BECOME ACTIVE DUE TO THE FORMATION OF A DELTA. THE ONLY OTHER FLARE ACTIVITY WERE TWO SUBFLARES FROM REGIONS 2865 (N26E33) AND 2855. REGION 2857 (S07E32) HAS BEEN INACTIVE TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGH THE FORECAST PERIOD DUE TO THE APPARENT SUSTAINED POTENTIAL IN REGION 2857 AND NEW POTENTIAL IN 2855.

II. THE GEOMAGNETIC FIELD WAS QUIET ON 26 DEC. THE 27-30 DEC IS EXPECTED TO BE MILDLY UNSETLED.

III. EVENT PROBABILITIES: 28 - 30 DEC

CLASS M 35/40/45

CLASS X 05/05/05

PROTON 01/01/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 26 DEC 228

ESTIMATED 27 DEC 227

PREDICTED 28-30 DEC 224/220/216

90 DAY MEAN 26 DEC 216

V. GEOMAGNETIC INDICES

OBSERVED AFR 25 DEC 06 AP 26 DEC 07

ESTIMATED AFR 26 DEC 06 AFR/AP 27 DEC 08/09

PREDICTED AFR 28-30 DEC 09/09 09/09 08/09

SOLARTEWARN

BT

HFUS 1 BOU 272200 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 362 B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200UT 27 DEC 1980

I A. SOLAR ACTIVITY WAS MODERATE. AN M1/1B OCCURRED IN REGION 2855 (S23E15) REACHING A MAXIMUM AT 27/1018 UT. THIS EVENT WAS ACCOMPANIED BY RADIO BURSTS AT NUMEROUS FREQUENCIES. THIS REGION DID BECOME ACTIVE DUE TO THE FORMATION OF A DELTA. THE ONLY OTHER FLARE ACTIVITY WERE TWO SUBFLARES FROM REGIONS 2865 (N26E33) AND 2855. REGION 2857 (S07E32) HAS BEEN INACTIVE TODAY.

ADDITIONS TO 27/1200Z MESSAGE: NEW REGION 2867 (S08E57) DEVELOPED ON THE DISK AND PRESENTLY DISPLAYS A B-TYPE SPOT GROUP. REGION 2857 HAS CONTINUED GROWING AND PRESENTLY DISPLAYS THE BRIGHTEST PLAGE ON THE SOLAR DISK. IT PRODUCED A C2/SN FLARE AT 1842Z AND CONTINUES TO INCREASE IN MAGNETIC COMPLEXITY WITH A BETA-GAMMA CONFIGURATION. IN ADDITION, THIS REGION PRODUCED A SUBFLARE AT 1443Z. A DISAPPEARING SOLAR FILAMENT WAS ALSO REPORTED FROM REGION 2857 AT 1835-1842Z. THREE OTHER REGIONS PRODUCED SUBFLARES: REGION 2865 - 1332Z, REGION 2855 - 1701Z AND 1754Z. ALL OTHER DISK AND LIMB FEATURES APPEAR QUIET AND STABLE.

I B. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE THROUGH THE FORECAST PERIOD DUE TO THE APPARENT SUSTAINED POTENTIAL IN REGION 2857 AND NEW POTENTIAL IN 2855.

II. THE GEOMAGNETIC FIELD WAS QUIET ON 26 DEC. THE 27-30 DEC PERIOD IS EXPECTED TO BE MILDLY UNSETLED.

III. EVENT PROBABILITIES: 28-30 DEC

CLASS M 50/50/50

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 DEC 228

PREDICTED 28-30 DEC 230/232/232

90 DAY MEAN 27 DEC 216

V. GEOMAGNETIC ACTIVITY INDICES

OBSERVED AFR/AP 26 DEC 07/07

ESTIMATED AFR/AP 27 DEC 12/12

PREDICTED AFR/AP 28-30 DEC 09/09 09/09 08/09

SOLTERWARN

BT