

HFUS 3. BOU-162200

FROM SPACE ENVIRONMENT SERVICES CENTE , BOULDER, COLORADO

SDF NUMBER 289

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z TO 16/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL FOR THE PAST 24 HOUR PERIOD. REGION 4335 (N21W52) PRODUCED AN M2/1B EVENT AT 16/2010UT. THIS REGION ALSO PRODUCED A 1100F.U. 245MHZ RADIO BURST EARLIER AT 16/1644UT WITH AN ASSOCIATED SUB-FAINT FLARE. REGION 4341 (S16E52) PRODUCED AN B8/1B EVENT AT 16/1654UT. ONE NEW REGION 4342 (S16E52) WAS ASSIGNED. REGION 4342 WAS A SINGLE ALPHA SPOT.

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO BE AT A LOW LEVEL THROUGH THE FORECAST PERIOD. A FAIR CHANCE OF MODERATE LEVEL ACTIVITY IS POSSIBLE DUE TO THE ACTIVITY FROM REGION 4335.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC ACTIVITY HAS BEEN AT ACTIVE TO MINOR STORM LEVELS FOR THE PAST 24 HOUR PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS EXPECTED TO BE AT AN ACTIVE LEVEL THROUGH THE FORECAST PERIOD. BRIEF PERIODS OF MINOR STORM LEVEL ACTIVITY ARE EXPECTED AT HIGH LATITUDE SITES DURING THE NIGHT-TIME HOURS.

III. EVENT PROBABILITIES 17 OCT-19 OCT

CLASS M 35/30/25

CLASS X 02/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCT 112

PREDICTED 17 OCT-19 OCT 111/110/110

90 DAY MEAN 16 OCT 121

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 OCT 022/024

ESTIMATED AFR/AP 16 OCT 015/025

PREDICTED AFR/AP 17 OCT-19 OCT 015/020-015/015-015/015

SOLTERWARN

BT