

HFUS 1 POU 211245

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 264A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 1300Z 21 SEPTEMBER 1981

I A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM

20/1200Z TO 21/1200Z:

SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST FLARE WAS A C8/SB AT 21/1057 UT FROM REGION 3344 (N10E17). THIS REGION APPEARS STABLE IN WHITE LIGHT AND IN ITS MAGNETIC CONFIGURATION, BUT STILL REMAINS THE MOST POTENTIALLY ACTIVE REGION ON THE DISK. REGIONS 3347 (S07E23) AND 3349 (N20W52) ARE BOTH ERUPTIVE.

I B. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE FORECAST PERIOD. HOWEVER, REGION 3344 HAS STABILIZED IN A POTENTIALLY ACTIVE CONFIGURATION AND MAY STILL PRODUCE A SMALL M-CLASS FLARE THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED FOR THE PAST 24 HOURS AND IS EXPECTED TO REMAIN UNSETTLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 22 - 24 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 20 SEP 199

ESTIMATED 21 SEP 195

PREDICTED 22-24 SEP 190/180/180

90 DAY MEAN 20 SEP 209

V. GEOMAGNETIC A. INDICES

OBSERVED AFR 19 SEP 28 AP 20 SEP 08

ESTIMATED AFR 20 SEP 09 AFR/AP 21 SEP 07/10

PREDICTED AFR/AP 22-24 SEP 08/10 10/13 12/15

SOLTERWARN

BT

HFUS 3 BOU 212200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER COLORADO
SDF NUMBER 264B

JOTNT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 SEPTEMBER 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/1200Z TO 21/2100Z. SOLAR ACTIVITY REMAINS UNUSUALLY LOW WITH NO EVENTS OBSERVED DURING THE PAST NINE HOURS. THE ONLY INDICATION OF ANY CHANGE ON THE SUN HAS BEEN THE EMERGENCE OF FOUR SMALL SPOTTED REGIONS ON THE DISK. THESE REGIONS: 3355 (N20E20), 3356 (N17E65), 3357 (S21W02), AND 3358 (N21E42) ARE ALL SIMPLE A OR B TYPE GROUPS. NEW REGION 3359 (S09E73) HAS APPEARED AT EAST LIMB AS A SMALL C-TYPE GROUP. REGION 3344 (N11E05) REMAINS THE MOST COMPLEX ON THE DISK, BUT HAS BEEN INACTIVE THIS PERIOD WITH SLOW DECAY REPORTED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. ALTHOUGH THE RAPID EMERGENCE OF SEVERAL NEW REGIONS TODAY HAS INCREASED THE SPOT NUMBER, ALMOST ALL OF THE SEVENTEEN SPOTTED GROUPS ARE SMALL AND UNIMPRESSIVE. REGION 3344 RETAINS ITS POTENTIAL FOR A SMALL M-CLASS EVENT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET DURING THE PAST NINE HOURS. QUIET TO MILDLY UNSETLED CONDITIONS ARE EXPECTED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 SEPTEMBER - 24 SEPTEMBER

CLASS M 40/40/40

CLASS X 01/01/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEPTEMBER 190

PREDICTED 22-24 SEPTEMBER 185/180/175

90-DAY MEAN 21 SEPTEMBER 209

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 SEPTEMBER 08/08

ESTIMATED AFR/AP 21 SEPTEMBER 05/10

PREDICTED AFR/AP 22-24 SEPTEMBER 08/10 - 10/13 - 12/15

SOLTERWARN BT