

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 105

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 APR 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY OCCASIONAL LOW LEVEL CLASS C FLARES OCCURRING. REGION 4468 (N09E20) HAS HAD NEW FLUX EMERGE IN THE TRAILER PORTION OF THE EXISTING STRUCTURE. THIS NEW DEVELOPMENT, COMBINED WITH THE MIXED POLARITY AREA JUST EAST OF THE LARGE LEADER PENUMBRA, FURTHER COMPLICATES THE MAGNETIC CONFIGURATION OF THIS REGION. REGION 4469 (S16E76) HAS ROTATED ON TO THE DISK AND HAS HAD SEVERAL SUBFLARES. REGION 4470 (S21E09) IS EMERGING TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. THERE IS A CHANCE FOR CLASS M FLARES IN REGION 4468; HOWEVER, THIS WILL DEPEND ON HOW THE MAGNETIC FLUX EMERGENCE COALESCES WITH THE EXISTING STRUCTURE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED THROUGH 1500Z AND ACTIVE SINCE THAT TIME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: SHORT PERIODS OF ACTIVE CONDITIONS ARE EXPECTED TO BE EMBEDDED WITHIN THE GENERALLY UNSETTLED CONDITIONS THAT SHOULD PREVAIL THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 APR-17 APR

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 APR 118

PREDICTED 15 APR-17 APR 122/126/128

90 DAY MEAN 14 APR 129

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 APR 015/016

ESTIMATED AFR/AP 14 APR 011/016

PREDICTED AFR/AP 15 APR-17 APR 012/020-010/015-010/015

SOLTERWARN

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