

SDF issued at 2108UT 01 JAN 87

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 001

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 01 JAN 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/2100Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. NEW REGION 4763 (NO6E13) HAS GROWN DRAMATICALLY SINCE IT APPEARED AS A PLAGE REGION YESTERDAY. IT IS NOW A BIPOLAR GROUP CONTAINING 14 SPOTS AND HAS PRODUCED NUMEROUS DARK SURGES, SUBFLARES AND MINOR RADIO BURSTS THROUGHOUT THIS REPORTING PERIOD. IT HAS OLD CYCLE POLARITY. AN ARCH FILAMENT SYSTEM CONTINUES IN PROGRESS. THE REMAINDER OF THE DISK, AND THE SOLAR LIMBS, ARE REPORTED QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW FOR THE NEXT THREE DAYS. REGION 4763 IS EXPECTED TO PRODUCE ONLY SUBFLARES OR OCCASIONAL C-CLASS X-RAY FLARES UNLESS SIGNIFICANT DEVELOPMENT OCCURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 31/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED FOR THE PAST 24 HOURS, WITH SOME PERIODS AT ACTIVE LEVELS ESPECIALLY AT HIGH GEOMAGNETIC LATITUDES. THIS DISTURBANCE IS NOT RECURRENT AND WAS NOT EXPECTED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO PERSIST AT GENERALLY UNSETTLED LEVELS FOR THE NEXT THREE DAYS. ISOLATED PERIODS AT ACTIVE LEVELS ARE POSSIBLE DURING LOCAL NIGHTTIME HOURS.

III. EVENT PROBABILITIES 02 JAN-04 JAN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JAN 074

PREDICTED 02 JAN-04 JAN 075/075/075

90 DAY MEAN 01 JAN 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 DEC 005/009

ESTIMATED AFR/AP 01 JAN 012/015

PREDICTED AFR/AP 02 JAN-04 JAN 010/010-010/010-010/010