

HFUS 3 BOU 232200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 023

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 23 JAN 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100  
TO 23/2100Z: THE SOLAR ACTIVITY HAS BEEN AT A LOWER LEVEL DURING  
THE PAST 24 HOUR PERIOD. REGION 4399 (N12E72) PRODUCED A C9/1B  
EVENT AT 23/0834UT. THIS REGION HAS GROWN TO 450 MILLIONTHS IN  
AREA AND A CLASSIFICATION OF "DKI" BETA-TYPE. IT ALSO PRODUCED  
MANY SUB-FLARES WITH LOW CATEGORY "C" X-RAY EVENTS THROUGHOUT  
THE PERIOD. REGION 4398 (N15E52) PRODUCED 3 SUB-FLARES BUT WITH-  
OUT ANY ASSOCIATED X-RAY EVENTS. IT WAS A "CAO" BETA-TYPE  
CLASSIFICATION WITH 170 MILLIONTHS IN AREA. NO NEW REGIONS WERE  
ASSIGNED DURING THE PERIOD.

*category*

*FLARES*

IB. SOLAR ACTIVITY FORECAST: THE SOLAR ACTIVITY IS EXPECTED TO  
BE AT A LOW LEVEL THROUGHOUT THE FORECAST PERIOD. REGION 4399  
PROVIDES THE FAIR CHANCE OF MODERATE LEVEL ACTIVITY AS IT IS  
STILL GROWING SOMEWHAT AND ONLY MISSED THE CLASS "M" X-RAY  
EVENT THRESHOLD BY THE SMALLEST MARGIN POSSIBLE.  
THE REGIONS 4397 (N17E41)/4398/4399 GROUP NOW ON THE EASTERN  
LIMB SHOULD CONTINUE TO PROVIDE AT LEAST LOW LEVEL CLASS "C"  
X-RAYS THROUGHOUT THE PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z:  
THE GEOMAGNETIC ACTIVITY HAS BEEN AT AN UNSETTLED LEVEL DURING  
THE PAST 24 HOUR PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC ACTIVITY IS  
EXPECTED TO BE AT UNSETTLED TO ACTIVE LEVELS THROUGHOUT THE  
FORECAST PERIOD. THE EFFECT OF THE CORONAL HOLE AT CENTRAL  
MERIDIAN ON THE 20/21ST OF JANUARY WILL BE TO SLIGHTLY RAISE  
THE RECURRENT VALUES, BUT NO STORM LEVEL ACTIVITY IS EXPECTED  
EXCEPT THE NORMALLY BRIEF POSSIBILITY OF NIGHT-TIME RECORDINGS  
AT HIGH LATITUDE SITES.

III. EVENT PROBABILITIES 24 JAN-26 JAN  
CLASS M 40/40/40  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX  
OBSERVED 23 JAN 117  
PREDICTED 24 JAN-26 JAN 120/121/122  
90 DAY MEAN 23 JAN 095

V. GEOMAGNETIC A INDICES  
OBSERVED AFR/AP 22 JAN 009/012  
ESTIMATED AFR/AP 23 JAN 006/010  
PREDICTED AFR/AP 24 JAN-26 JAN 015/020-015/020-015/020  
SOLTERWARN  
BT