



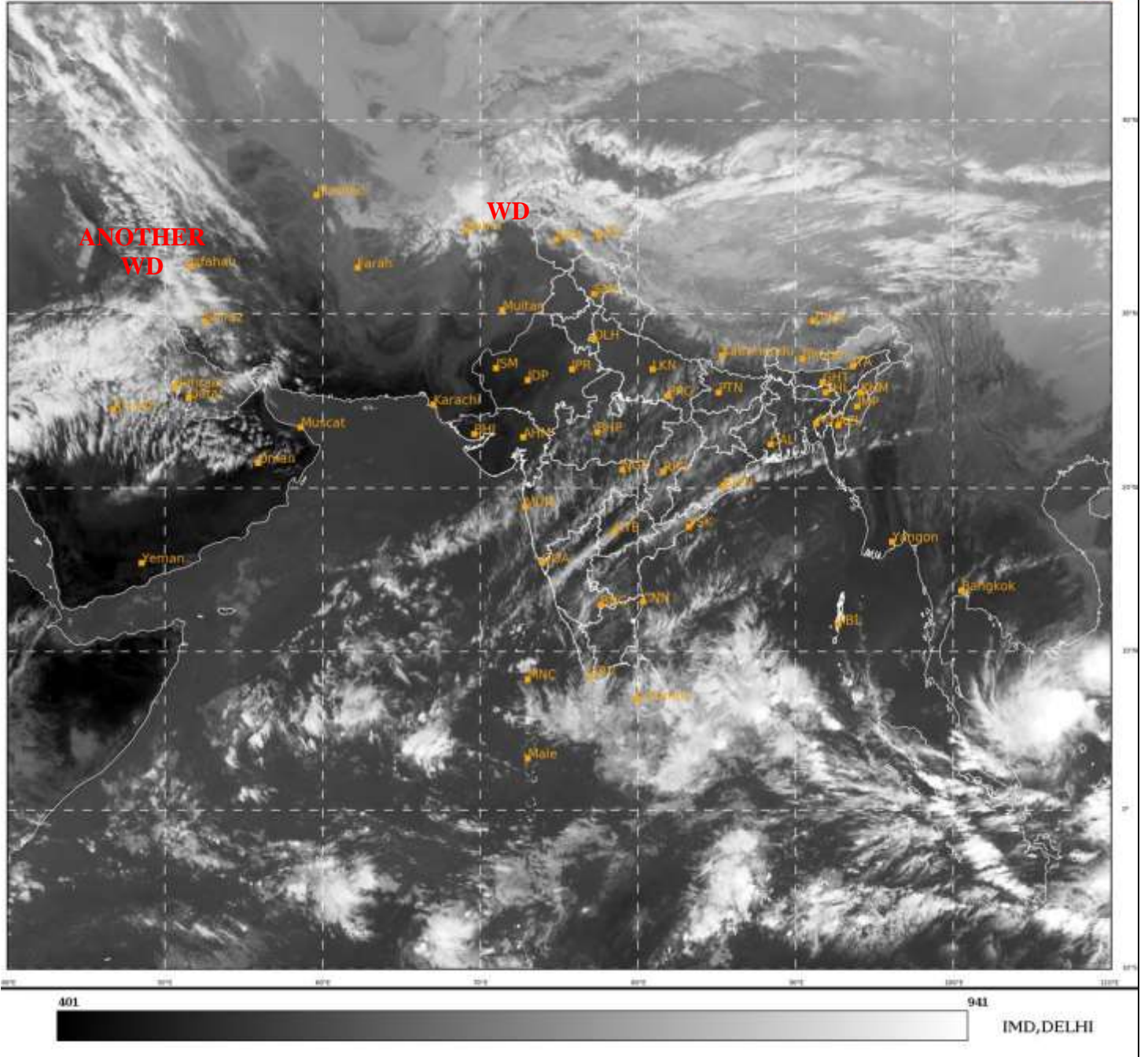
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय
India Meteorological Department
Ministry of Earth Sciences



SATELLITE BULLETIN BASED ON SATELLITE
IMAGERIES AND PRODUCTS
15.12.2021 TIME 0900 UTC

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

15-12-2021/(0900 to 0926) GMT
15-12-2021/(1430 to 1456) IST



TCIN50 DEMS 150900

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 150900 UTC (.)

REGION COVERED BETWEEN LAT 50.0°N TO 30.0°S AND LONG 40.0°E TO 125.0°E (.)

SALIENT FEATURES:-

WESTERN DISTURBANCE (WD):-

SCT MULTILAYERED CLOUDS OVER EXT N PAK LADAKH N TIBET ADJ CHINA AND N/HOOD IN ASSW **WD** OVER THE AREA (.)

SCT MULTILAYERED CLOUDS OVER IRAQ N SAUDI ARABIA W IRAN AND N/HOOD IN ASSW **ANOTHER WD** OVER THE AREA (.)

CONVECTION OVER EQUATORIAL INDIAN OCEAN:-

CONVECTION OVER EQUATORIAL INDIAN OCEAN SOUTH OF SRI LANKA PERSISTS DURING LAST 06 HOURS (.)



INSAT-3D 15-DEC-2021 09:00 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

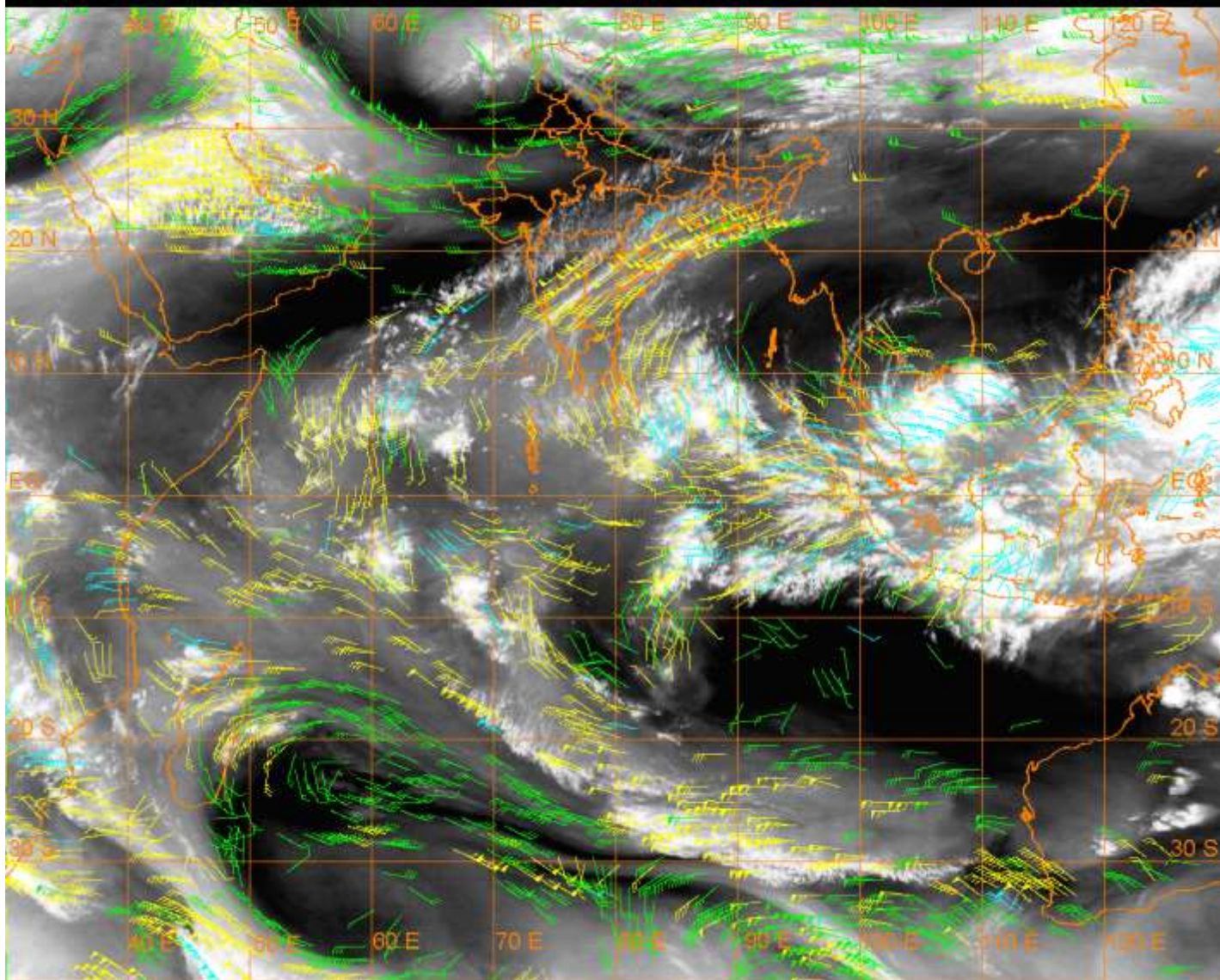
20 Kt

50 Kt

100-250 hPa

251-350 hPa

351-500 hPa



CLOUDS DESCRIPTION WITHIN INDIA:-

NORTH:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER N LADAKH (.) SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER REST LADAKH J&K N HP N UTRKND EXT SW & E UP (.) ISOL LOW/MED CLOUDS OVER S HP (.)

EAST:-

SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER NW BHR JHRKND CHTGH ORS GWB SKM W MEGHA ARUPR S MIZO & BD (.) SCT LOW/MED CLOUDS OVER REST BHR SHWB REST NE STATES (.)

WEST:-

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER MP SE GUJ MAHA (.) ISOL TO SCT LOW/MED CLOUDS OVER E RAJ REST GUJ GOA (.)

SOUTH:-

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER TLNGN KRNTK RYLSM N COTL AP KER S TN NICOBAR ILS (.) SCT LOW/MED CLOUDS OVER S COTL AP N TN LKSDP (.)

ARABIAN SEA:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN SOUTH ARSEA AND COMORIN (.) SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER EC ARSEA (.)

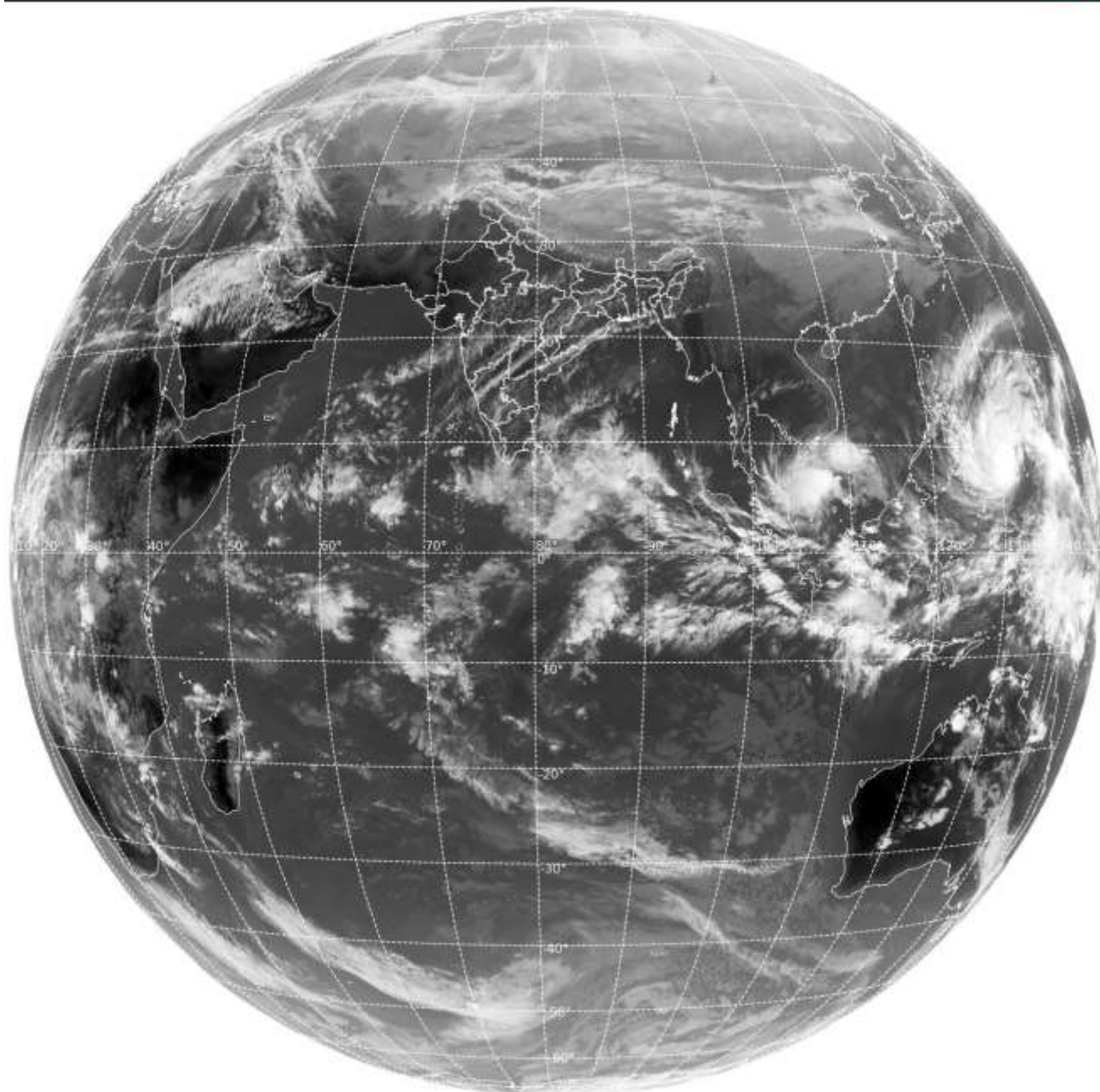
BAY OF BENGAL & ANDAMAN SEA:-

SCT TO BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER S BAY (.) SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER WC BAY SW ANDAMAN SEA (.)

CLOUDS DESCRIPTION OUTSIDE INDIA:-

SAT : INSAT-3D IMG
Thermal Infrared1 Count 10.8 um
L1B FULL DISK

15-12-2021/(0900 to 0926) GMT
15-12-2021/(1430 to 1456) IST



344

973

IMD,DELHI

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SRI LANKA N MALDIVES N TIBET CHINA S THAILAND S VIETNAM GULF OF THAILAND SUMATRA STR OF MALACCA MALAYSIA SOUTH CHINA SEA BORNEO JAVA ILS & SEA CELEBES ILS & SEA PHILIPPINES SULU SEA MADAGASCAR MOZAMBIQUE CHANNEL AND OVER INDIAN OCEAN BET LAT 5.0N TO 12.0S LONG 50.0E TO 114.0E (.)

TOO 15/1530EF=

NNNN

LEGEND:-

| | | |
|---------------|--------------|--|
| REGION | NORTH | J&K HP PJB HARY DLH UP UTRKND |
| | EAST | BHR JHRKND CHTGH ORS WB SKM NORTH- EAST STATES |
| | WEST | RAJ MP GUJ MAHA GOA |
| | SOUTH | TLNGN AP KRNTK KER TN LKSDP ANDAMAN & NICOBAR ILS |

| | | | |
|---|---------------------|---|-------------------|
| CLOUD DISTRIBUTION | ISOL | ISOLATED (LESS THAN 25%) | |
| | SCT | SCATTERED (25 TO 50%) | |
| | BKN | BROKEN (51 TO 75%) | |
| | SLD | SOLID (GREATER THAN 75%) | |
| CLOUDS TOP TEMPERATURE | CTT | CLOUD TOP TEMPERATURE | |
| CONVECTION | WK CONVTN | WEAK CONVECTION (CTT GREATER THAN -25°C) | |
| | MOD CONVTN | MODERATE CONVECTION (CTT BETWEEN -25°C TO -40°C) | |
| | INT CONVTN | INTENSE CONVECTION (CTT BETWEEN -41°C TO -70°C) | |
| | V INT CONVTN | VERY INTENSE CONVECTION (CTT LESS THAN -70°C) | |
| METEOROLOGICAL SUB-DIVISIONS, STATES & UNION TERRITORIES | ARUPR | ARUNACHAL PRADESH | |
| | BHR | BIHAR | |
| | CHTGH | CHHATTISGARH | |
| | COTL AP | COASTAL ANDHRA PRADESH | |
| | COTL KRNTK | COASTAL KARNATAKA | |
| | COTL ORS | COASTAL ORISSA | |
| | GUJ | GUJARAT | |
| | GWB | GANGETIC WEST BENGAL | |
| | HARY | HARYANA | |
| | DLH | DELHI | |
| | HP | HIMACHAL PRADESH | |
| | J&K | JAMMU AND KASHMIR | |
| | JHRKND | JHARKHAND | |
| | KER | KERALA | |
| | KKN | KONKAN | |
| | LKSDP | LAKSHADWEEP | |
| | M MAHA | MADHYA MAHARASHTRA | |
| | MAHA | MAHARASHTRA | |
| | MANI | MANIPUR | |
| | MEGHA | MEGHALAYA | |
| | MIZO | MIZORAM | |
| | MP | MADHYA PRADESH | |
| | | MRTHWD | MARATHWADA |
| | | NAGA | NAGALAND |
| N COTL AP | | NORTH COASTAL ANDHRA PRADESH | |
| NIK | | NORTH INTERIOR KARNATAKA | |

| | | |
|----------------------|------------------------|----------------------------------|
| | ORS | ORISSA |
| | PJB | PUNJAB |
| | RAJ | RAJASTHAN |
| | RYLSM | RAYALASEEMA |
| | SAU & KUTCH | SAURASHTRA & KUTCH |
| | SHWB | SUB-HIMALAYAN WEST BENGAL |
| | SIK | SOUTH INTERIOR KARNATAKA |
| | SKM | SIKKIM |
| | TLNGN | TELANGANA |
| | TN | TAMIL NADU |
| | TRP | TRIPURA |
| | UP | UTTAR PRADESH |
| | UTRKN | UTTARAKHAND |
| | VID | VIDHARBHA |
| | SHWB | SUB HIMALAYAN WEST BENGAL |
| | GWB | GANGETIC WEST BENGAL |
| | ARSEA | ARABIAN SEA |
| | ILS | ISLANDS |
| MISCELLANEOUS | ASSW | IN ASSOCIATION WITH |
| | ASSTD | ASSOCIATED |
| | LLC | LOW LEVEL CIRCULATION |
| | EMBDD | EMBEDDED |
| | N/HOOD | NEIGHBOURHOOD |
| | EXT | EXTREME |