CloudSat Education Network

Integrated Multi-Day Data Sheet

(modified from 2005 GLOBE Program® Teacher's Guide – http://www.globe.gov)

School Name: _____

Study Site: ATM-_____

Day of the week							
Date							
Local time (hour:min)							
Universal time (hour:min)							
Observer names *(list on back if too many)*							

Cloud Type *(Check **all** types seen)*

Cirrus	❒	❒	❒	❒	❒	❒	❒
Cirrocumulus	❒	❒	❒	❒	❒	❒	❒
Cirrostratus	❒	❒	❒	❒	❒	❒	❒
Altostratus	❒	❒	❒	❒	❒	❒	❒
Altocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulus	❒	❒	❒	❒	❒	❒	❒
Nimbostratus	❒	❒	❒	❒	❒	❒	❒
Stratus	❒	❒	❒	❒	❒	❒	❒
Stratocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulonimbus	❒	❒	❒	❒	❒	❒	❒

Contrail Type *(Record the **number** of each type observed)*

Short-lived							
Persistent Non-spreading							
Persistent Spreading							

Cloud Cover *(Check **one**)*

No clouds (0%)	❒	❒	❒	❒	❒	❒	❒
Clear (0%-9%)	❒	❒	❒	❒	❒	❒	❒
Isolated (10%-24%)	❒	❒	❒	❒	❒	❒	❒
Scattered (25%-49%)	❒	❒	❒	❒	❒	❒	❒
Broken (50%-89%)	❒	❒	❒	❒	❒	❒	❒
Overcast (90%-100%)	❒	❒	❒	❒	❒	❒	❒
Sky obscured	❒	❒	❒	❒	❒	❒	❒

Contrail Cover *(Check one – if sky not obscured)*

None	❒	❒	❒	❒	❒	❒	❒
0-9%	❒	❒	❒	❒	❒	❒	❒
10%-24%	❒	❒	❒	❒	❒	❒	❒
25%-50%	❒	❒	❒	❒	❒	❒	❒
>50%	❒	❒	❒	❒	❒	❒	❒

If Sky Obscured *(Check all that apply if more than 25% of sky obscured)*

Fog	❒	❒	❒	❒	❒	❒	❒
Smoke	❒	❒	❒	❒	❒	❒	❒
Haze	❒	❒	❒	❒	❒	❒	❒
Volcanic ash	❒	❒	❒	❒	❒	❒	❒
Dust	❒	❒	❒	❒	❒	❒	❒
Sand	❒	❒	❒	❒	❒	❒	❒
Spray	❒	❒	❒	❒	❒	❒	❒
Heavy rain	❒	❒	❒	❒	❒	❒	❒
Heavy snow	❒	❒	❒	❒	❒	❒	❒
Blowing snow	❒	❒	❒	❒	❒	❒	❒

NORTH

Cloud Type *(Check **all** types seen)*

Cirrus	❒	❒	❒	❒	❒	❒	❒
Cirrocumulus	❒	❒	❒	❒	❒	❒	❒
Cirrostratus	❒	❒	❒	❒	❒	❒	❒
Altostratus	❒	❒	❒	❒	❒	❒	❒
Altocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulus	❒	❒	❒	❒	❒	❒	❒
Nimbostratus	❒	❒	❒	❒	❒	❒	❒
Stratus	❒	❒	❒	❒	❒	❒	❒
Stratocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulonimbus	❒	❒	❒	❒	❒	❒	❒

Cloud Cover *(Check **one**)*

No clouds (0%)	❒	❒	❒	❒	❒	❒	❒
Clear (0%-9%)	❒	❒	❒	❒	❒	❒	❒
Isolated (10%-24%)	❒	❒	❒	❒	❒	❒	❒
Scattered (25%-49%)	❒	❒	❒	❒	❒	❒	❒
Broken (50%-89%)	❒	❒	❒	❒	❒	❒	❒
Overcast (90%-100%)	❒	❒	❒	❒	❒	❒	❒
Sky obscured	❒	❒	❒	❒	❒	❒	❒

EAST

Cloud Type *(Check **all** types seen)*

Cirrus	❒	❒	❒	❒	❒	❒	❒
Cirrocumulus	❒	❒	❒	❒	❒	❒	❒
Cirrostratus	❒	❒	❒	❒	❒	❒	❒
Altostratus	❒	❒	❒	❒	❒	❒	❒
Altocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulus	❒	❒	❒	❒	❒	❒	❒
Nimbostratus	❒	❒	❒	❒	❒	❒	❒
Stratus	❒	❒	❒	❒	❒	❒	❒
Stratocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulonimbus	❒	❒	❒	❒	❒	❒	❒

(East continued)

Cloud Cover *(Check **one**)*

No clouds (0%)	❒	❒	❒	❒	❒	❒	❒
Clear (0%-9%)	❒	❒	❒	❒	❒	❒	❒
Isolated (10%-24%)	❒	❒	❒	❒	❒	❒	❒
Scattered (25%-49%)	❒	❒	❒	❒	❒	❒	❒
Broken (50%-89%)	❒	❒	❒	❒	❒	❒	❒
Overcast (90%-100%)	❒	❒	❒	❒	❒	❒	❒
Sky obscured	❒	❒	❒	❒	❒	❒	❒

SOUTH

Cloud Type *(Check **all** types seen)*

Cirrus	❒	❒	❒	❒	❒	❒	❒
Cirrocumulus	❒	❒	❒	❒	❒	❒	❒
Cirrostratus	❒	❒	❒	❒	❒	❒	❒
Altostratus	❒	❒	❒	❒	❒	❒	❒
Altocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulus	❒	❒	❒	❒	❒	❒	❒
Nimbostratus	❒	❒	❒	❒	❒	❒	❒
Stratus	❒	❒	❒	❒	❒	❒	❒
Stratocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulonimbus	❒	❒	❒	❒	❒	❒	❒

Cloud Cover *(Check **one**)*

No clouds (0%)	❒	❒	❒	❒	❒	❒	❒
Clear (0%-9%)	❒	❒	❒	❒	❒	❒	❒
Isolated (10%-24%)	❒	❒	❒	❒	❒	❒	❒
Scattered (25%-49%)	❒	❒	❒	❒	❒	❒	❒
Broken (50%-89%)	❒	❒	❒	❒	❒	❒	❒
Overcast (90%-100%)	❒	❒	❒	❒	❒	❒	❒
Sky obscured	❒	❒	❒	❒	❒	❒	❒

WEST

Cloud Type *(Check **all** types seen)*

Cirrus	❒	❒	❒	❒	❒	❒	❒
Cirrocumulus	❒	❒	❒	❒	❒	❒	❒
Cirrostratus	❒	❒	❒	❒	❒	❒	❒
Altostratus	❒	❒	❒	❒	❒	❒	❒
Altocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulus	❒	❒	❒	❒	❒	❒	❒
Nimbostratus	❒	❒	❒	❒	❒	❒	❒
Stratus	❒	❒	❒	❒	❒	❒	❒
Stratocumulus	❒	❒	❒	❒	❒	❒	❒
Cumulonimbus	❒	❒	❒	❒	❒	❒	❒

(West continued)

Cloud Cover *(Check **one**)*

No clouds (0%)	❒	❒	❒	❒	❒	❒	❒
Clear (0%-9%)	❒	❒	❒	❒	❒	❒	❒
Isolated (10%-24%)	❒	❒	❒	❒	❒	❒	❒
Scattered (25%-49%)	❒	❒	❒	❒	❒	❒	❒
Broken (50%-89%)	❒	❒	❒	❒	❒	❒	❒
Overcast (90%-100%)	❒	❒	❒	❒	❒	❒	❒
Sky obscured	❒	❒	❒	❒	❒	❒	❒

Current Temperature

Type of thermometer							
Current air temperature (degrees C)							

Rainfall (one hour before CloudSat flyover)

Local time (hour:min)							
Universal time (hour:min)							
Number of days rain has accumulated							
Rainwater in rain gauge (mm)*							

Rainfall (at time of CloudSat flyover)

Rainwater in rain gauge (mm)*							

**** Remember: Record 0 when there has been no rainfall.***
Record M for missing if there was rain and you were not able to take an accurate reading.
Record T for trace amount of rainfall (when too small to measure).

GO TO NEXT PAGE TO RECORD SOLID PRECIPITATION (Snow, sleet etc.)

Comments/Unusual Conditions: *Record here or on backs of these sheets.*

Snowfall (one hour before CloudSat flyover)

Local time (hour:min)							
Universal time (hour:min)							
Number of days snow has accumulated on snowboard							

DEPTH OF SNOW ON THE SNOWBOARD:

Depth of sample 1 (mm)							
Depth of sample 2 (mm)							
Depth of sample 3 (mm)							

TOTAL SNOWPACK ON THE GROUND:

Depth of sample 1 (mm)							
Depth of sample 2 (mm)							
Depth of sample 3 (mm)							

RAIN EQUIVALENT:

Rain equivalent of snow on snowboard (mm)							
Rain equivalent of total snowpack on ground (mm)							

Snowfall (at time of CloudSat flyover)

NEW SNOW ON THE SNOWBOARD:

Depth of sample 1 (mm)							
Depth of sample 2 (mm)							
Depth of sample 3 (mm)							

RAIN EQUIVALENT:

Rain equivalent of snow on snowboard (mm)							

**** Remember: Record 0 when there has been no snowfall.***
Record M for missing if there was snow and you were not able to take an accurate reading.
Record T for trace amount of snowfall (when too small to measure).