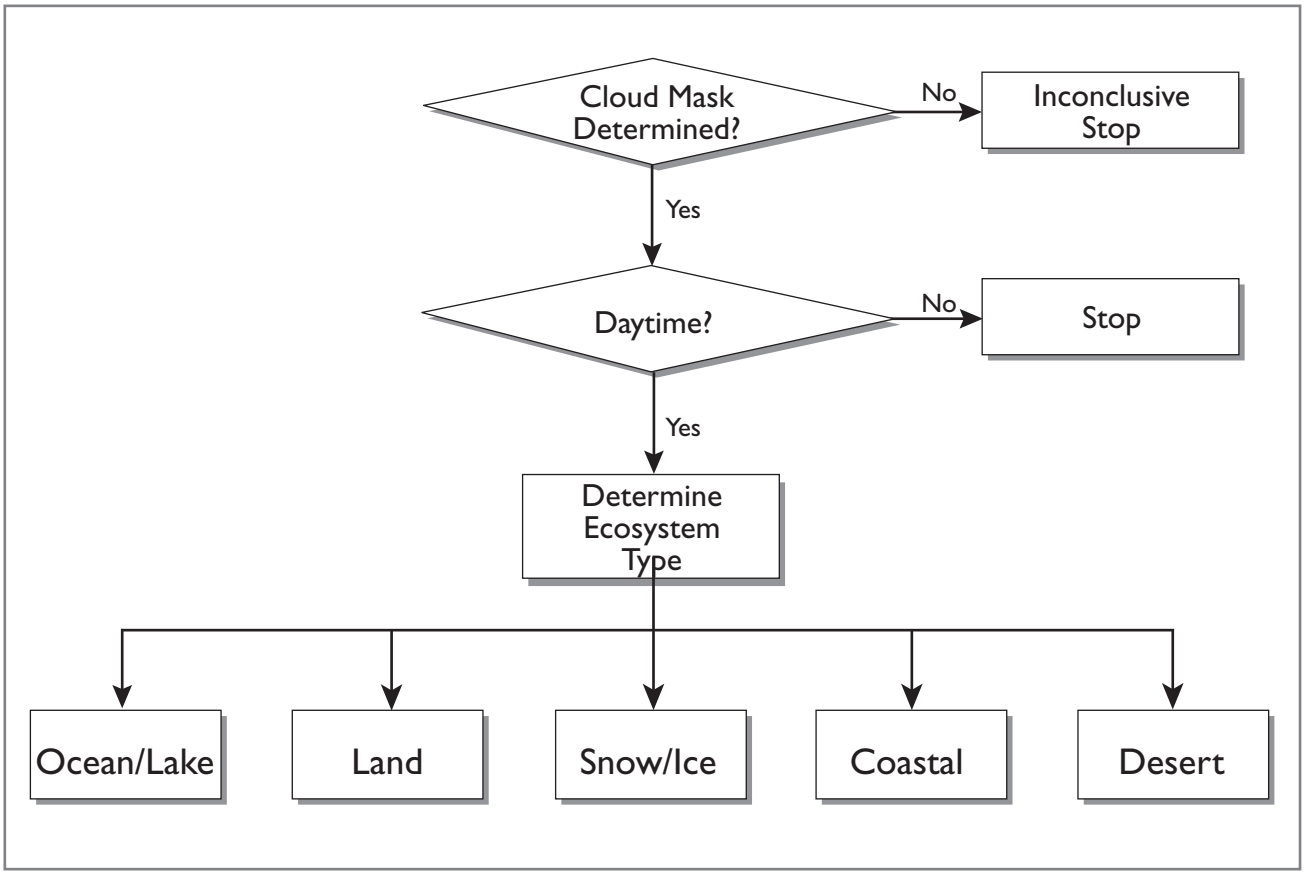
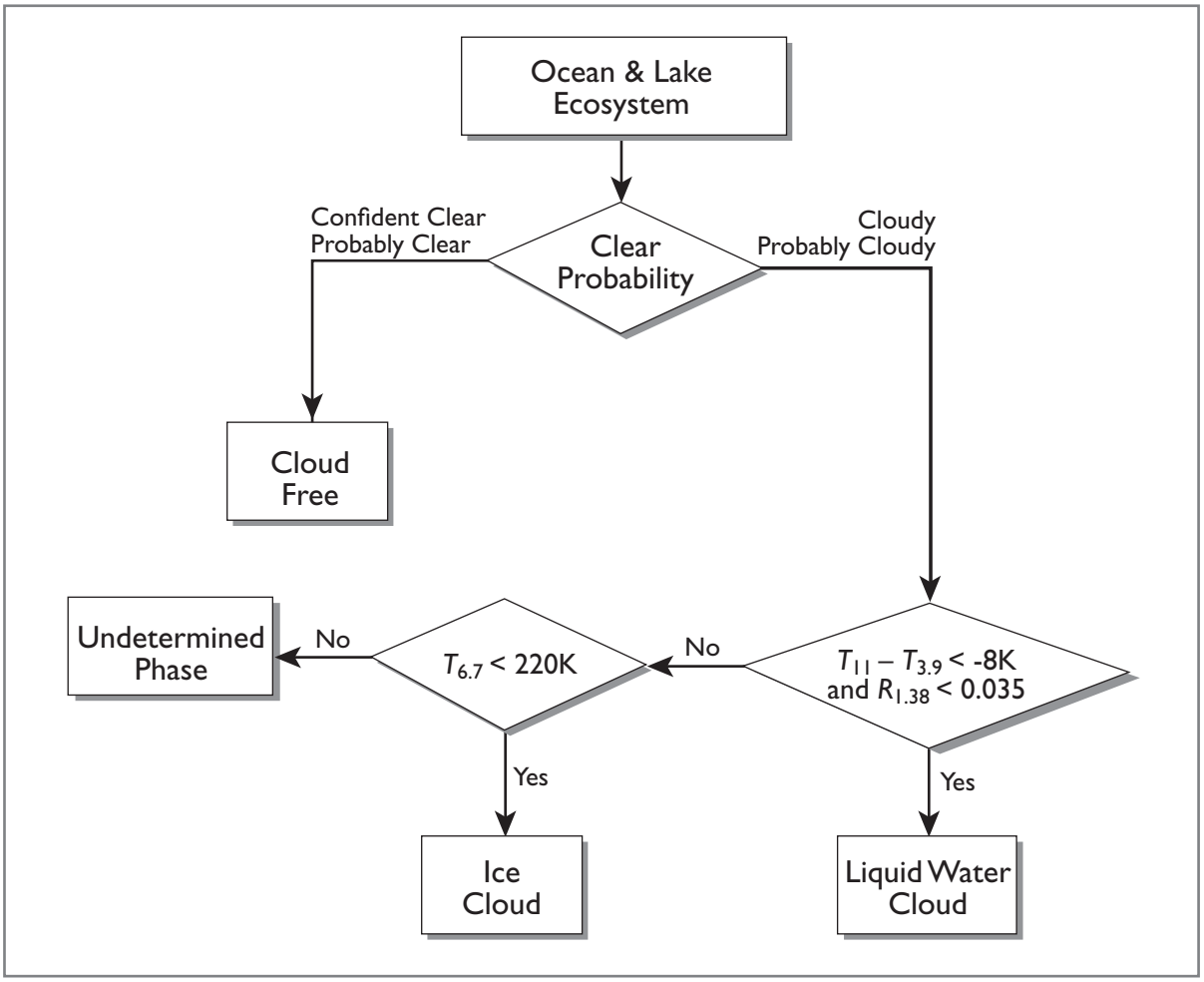
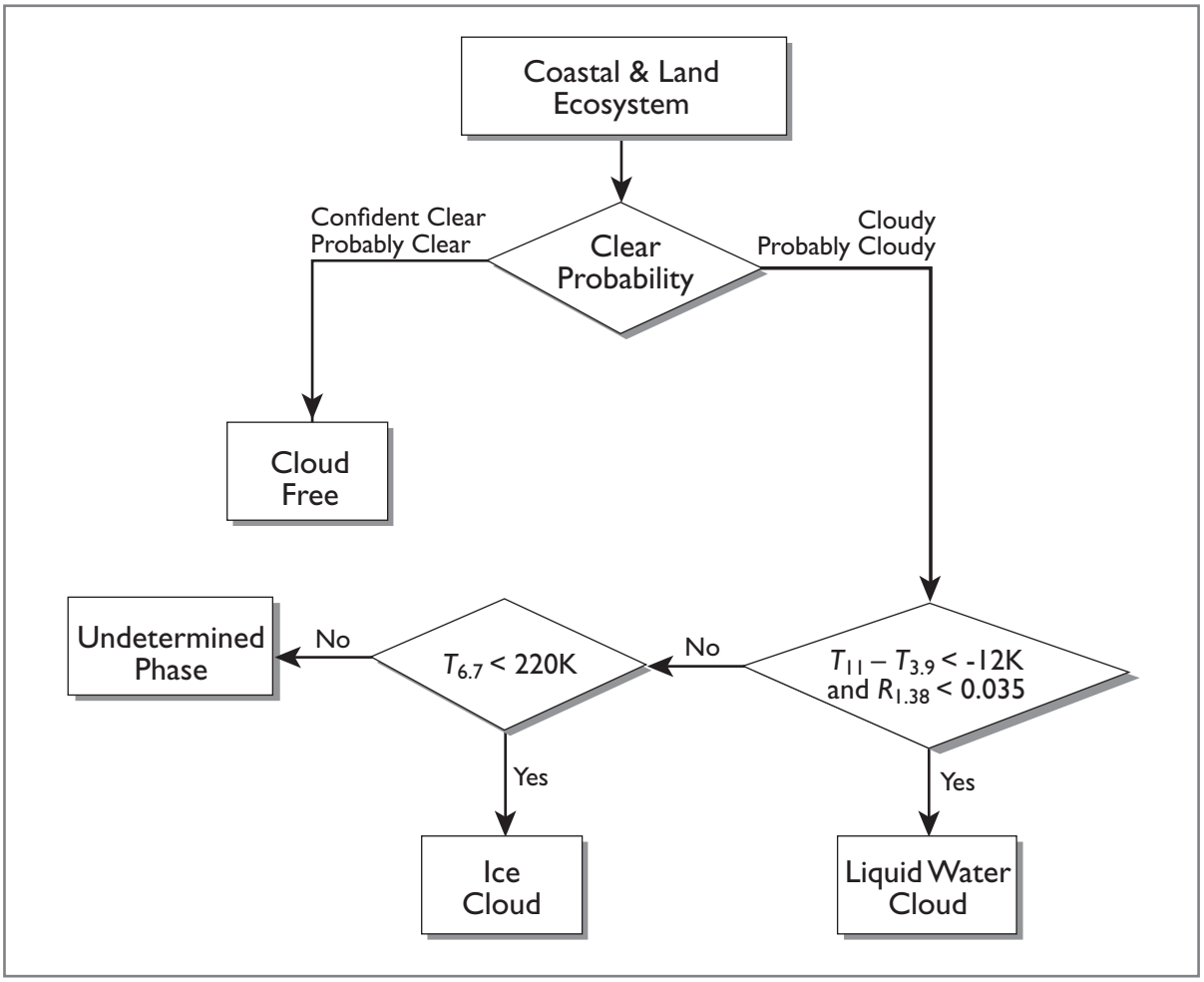
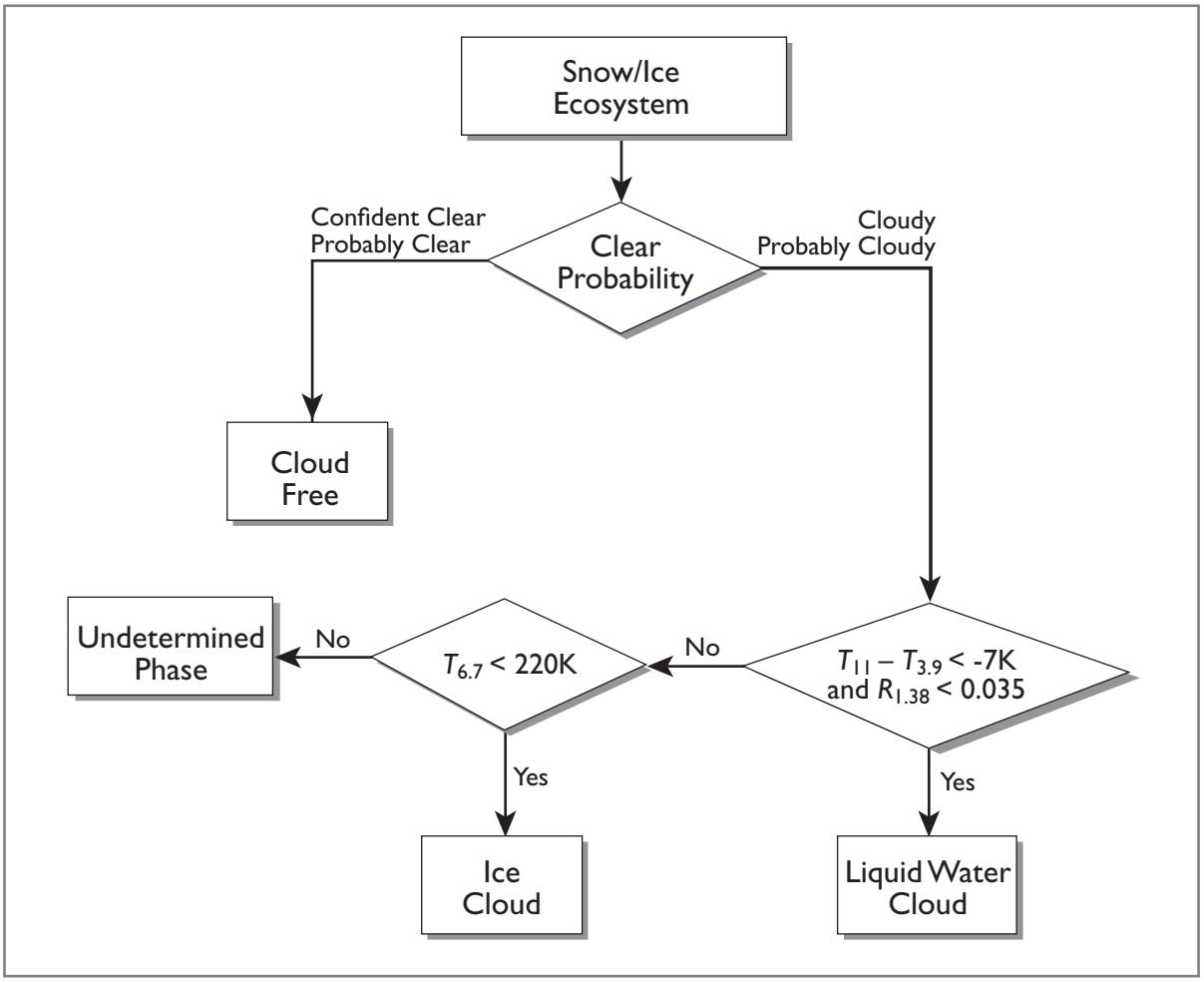
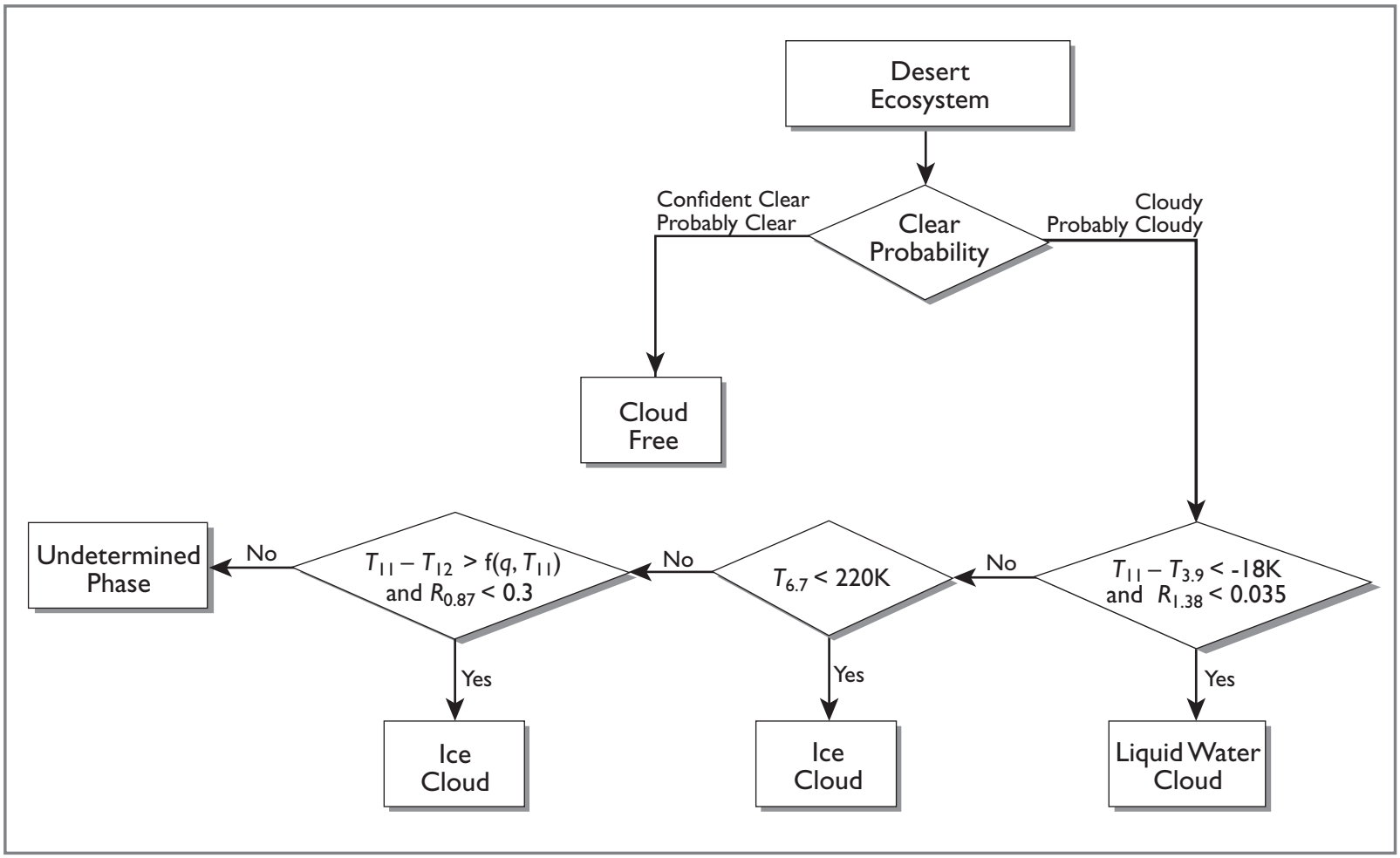

Cloud Mask Determined?
No
Inconclusive Stop
Yes
Daytime?
No
Stop
Yes
Determine Ecosystem Type
Ocean/Lake
Land
Snow/Ice
Coastal
Desert


Ocean & Lake Ecosystem
Confident Clear
Probably Clear
Clear Probability
Cloudy
Probably Cloudy
Cloud Free
Undetermined Phase
No
$T_{6.7}$ < 220K
No
$T_{11} - T_{3.9}$ < -8K and $R_{1.38}$ < 0.035
Yes
Yes
Ice Cloud
Liquid Water Cloud


Coastal & Land Ecosystem
Confident Clear
Probably Clear
Clear Probability
Cloudy
Probably Cloudy
Cloud Free
Undetermined Phase
No
$T_{6.7}$ < 220K
No
$T_{11} - T_{3.9}$ < -12K and $R_{1.38}$ < 0.035
Yes
Yes
Ice Cloud
Liquid Water Cloud


Snow/Ice Ecosystem
Confident Clear
Probably Clear
Clear Probability
Cloudy
Probably Cloudy
Cloud Free
Undetermined Phase
No
$T_{6.7}$ < 220K
No
$T_{11} - T_{3.9}$ < -7K and $R_{1.38}$ < 0.035
Yes
Yes
Ice Cloud
Liquid Water Cloud


Desert Ecosystem
Clear Probability
Confident Clear
Probably Clear
Cloudy
Probably Cloudy
Cloud Free
$T_{11} - T_{3.9} < -18K$ and $R_{1.38} < 0.035$
No
Yes
Liquid Water Cloud
$T_{6.7} < 220K$
No
Yes
Ice Cloud
$T_{11} - T_{12} > f(q, T_{11})$ and $R_{0.87} < 0.3$
No
Yes
Ice Cloud
Undetermined Phase