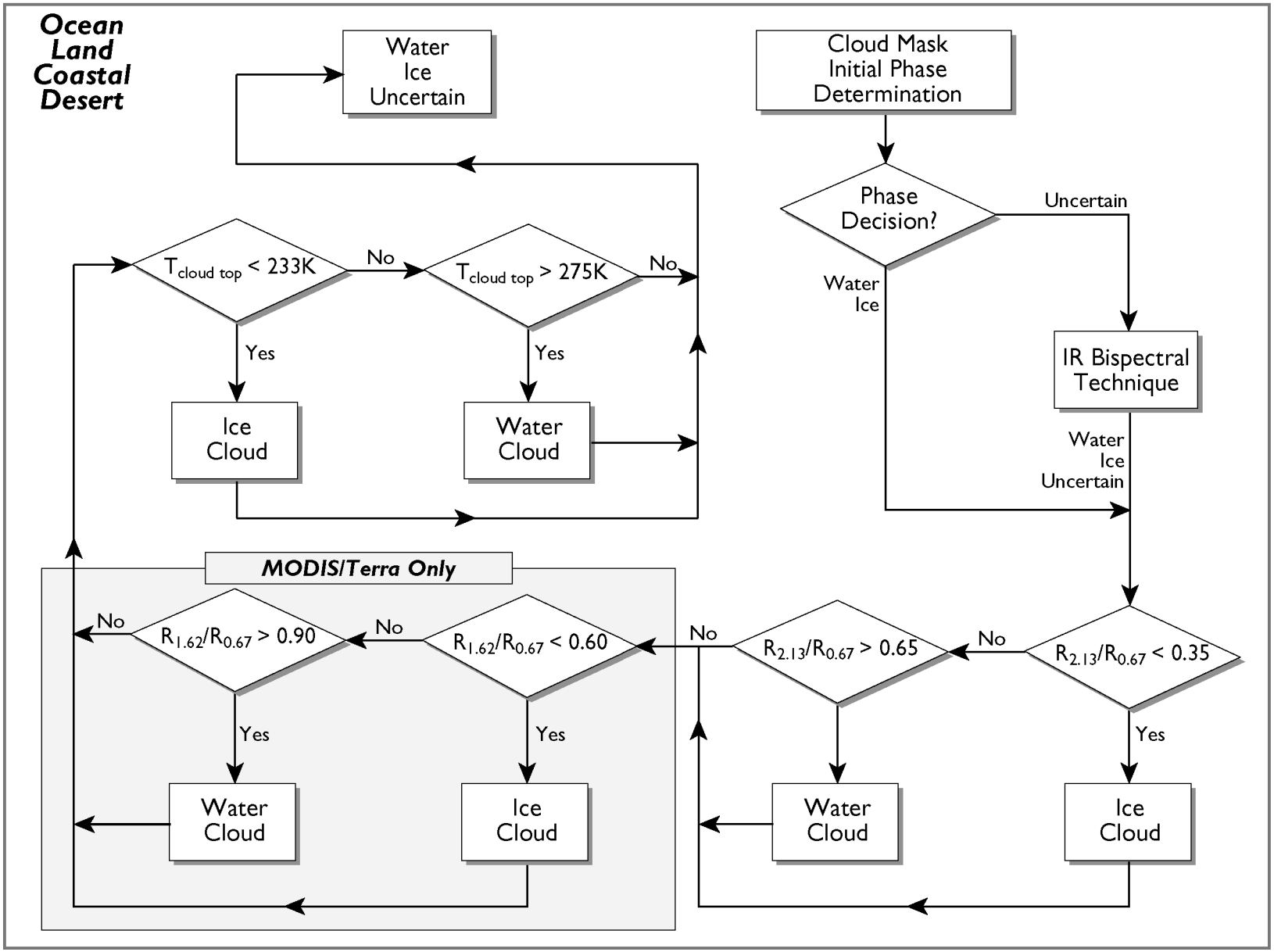
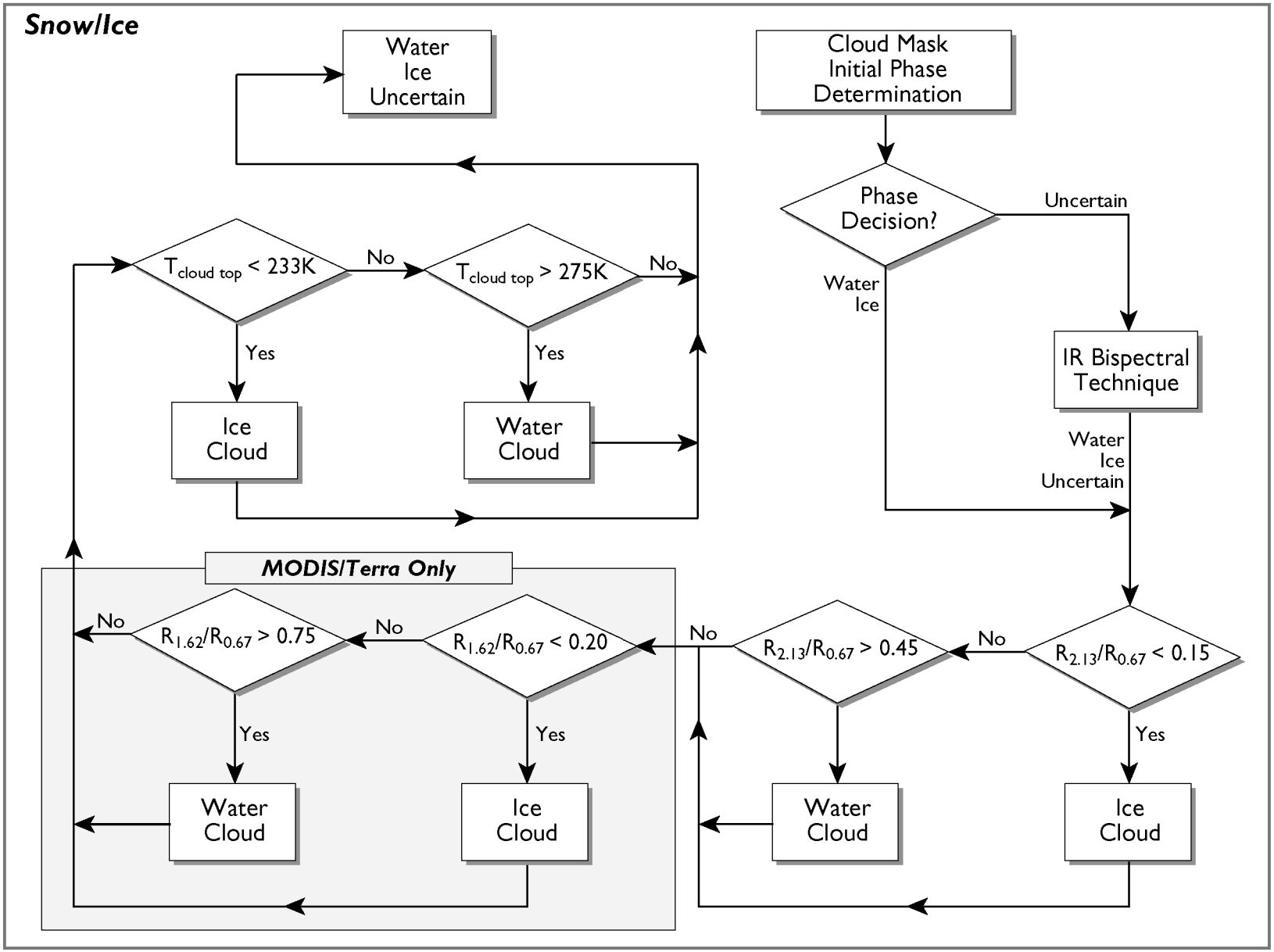

Ocean
Land
Coastal
Desert
Water
Ice
Uncertain
Cloud Mask
Initial Phase
Determination
Phase
Decision?
Uncertain
Water
Ice
IR Bispectral
Technique
Water
Ice
Uncertain
$T_{cloud\ top} < 233K$
No
$T_{cloud\ top} > 275K$
No
Yes
Yes
Ice
Cloud
Water
Cloud
MODIS/Terra Only
No
$R_{1.62}/R_{0.67} > 0.90$
No
$R_{1.62}/R_{0.67} < 0.60$
No
$R_{2.13}/R_{0.67} > 0.65$
No
$R_{2.13}/R_{0.67} < 0.35$
Yes
Yes
Yes
Water
Cloud
Ice
Cloud
Water
Cloud
Ice
Cloud


Snow/Ice
Water
Ice
Uncertain
Cloud Mask
Initial Phase
Determination
Phase
Decision?
Uncertain
Water
Ice
IR Bispectral
Technique
Water
Ice
Uncertain
$T_{cloud\ top} < 233K$
No
$T_{cloud\ top} > 275K$
No
Yes
Yes
Ice
Cloud
Water
Cloud
MODIS/Terra Only
No
$R_{1.62}/R_{0.67} > 0.75$
No
$R_{1.62}/R_{0.67} < 0.20$
No
$R_{2.13}/R_{0.67} > 0.45$
No
$R_{2.13}/R_{0.67} < 0.15$
Yes
Yes
Yes
Water
Cloud
Ice
Cloud
Water
Cloud
Ice
Cloud