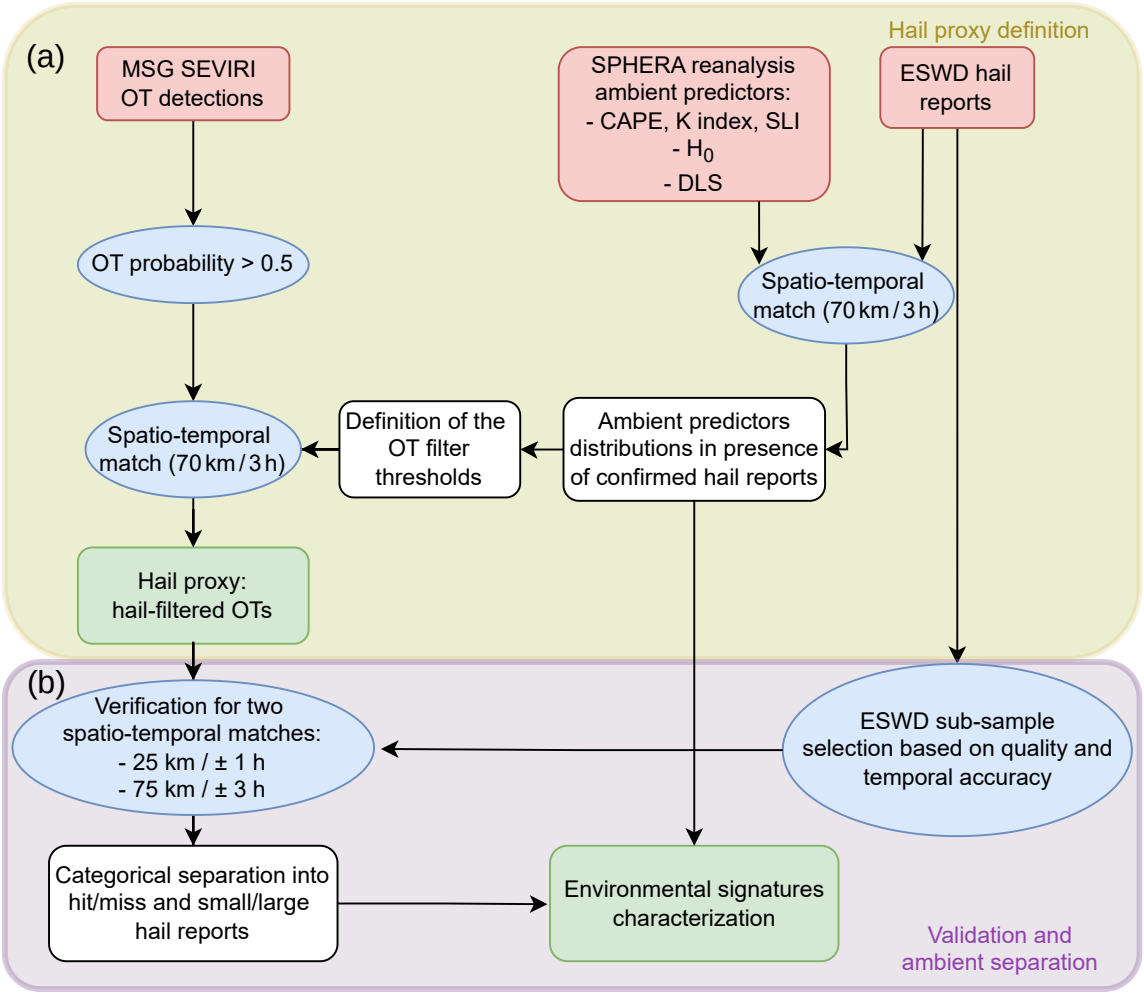
(a)
Hail proxy definition
MSG SEVIRI OT detections
SPHERA reanalysis ambient predictors:
- CAPE, K index, SLI
- H_0
- DLS
ESWD hail reports
OT probability > 0.5
Spatio-temporal match (70 km / 3 h)
Spatio-temporal match (70 km / 3 h)
Definition of the OT filter thresholds
Ambient predictors distributions in presence of confirmed hail reports
Hail proxy: hail-filtered OTs
(b)
Verification for two spatio-temporal matches:
- 25 km / ± 1 h
- 75 km / ± 3 h
ESWD sub-sample selection based on quality and temporal accuracy
Categorical separation into hit/miss and small/large hail reports
Environmental signatures characterization
Validation and ambient separation