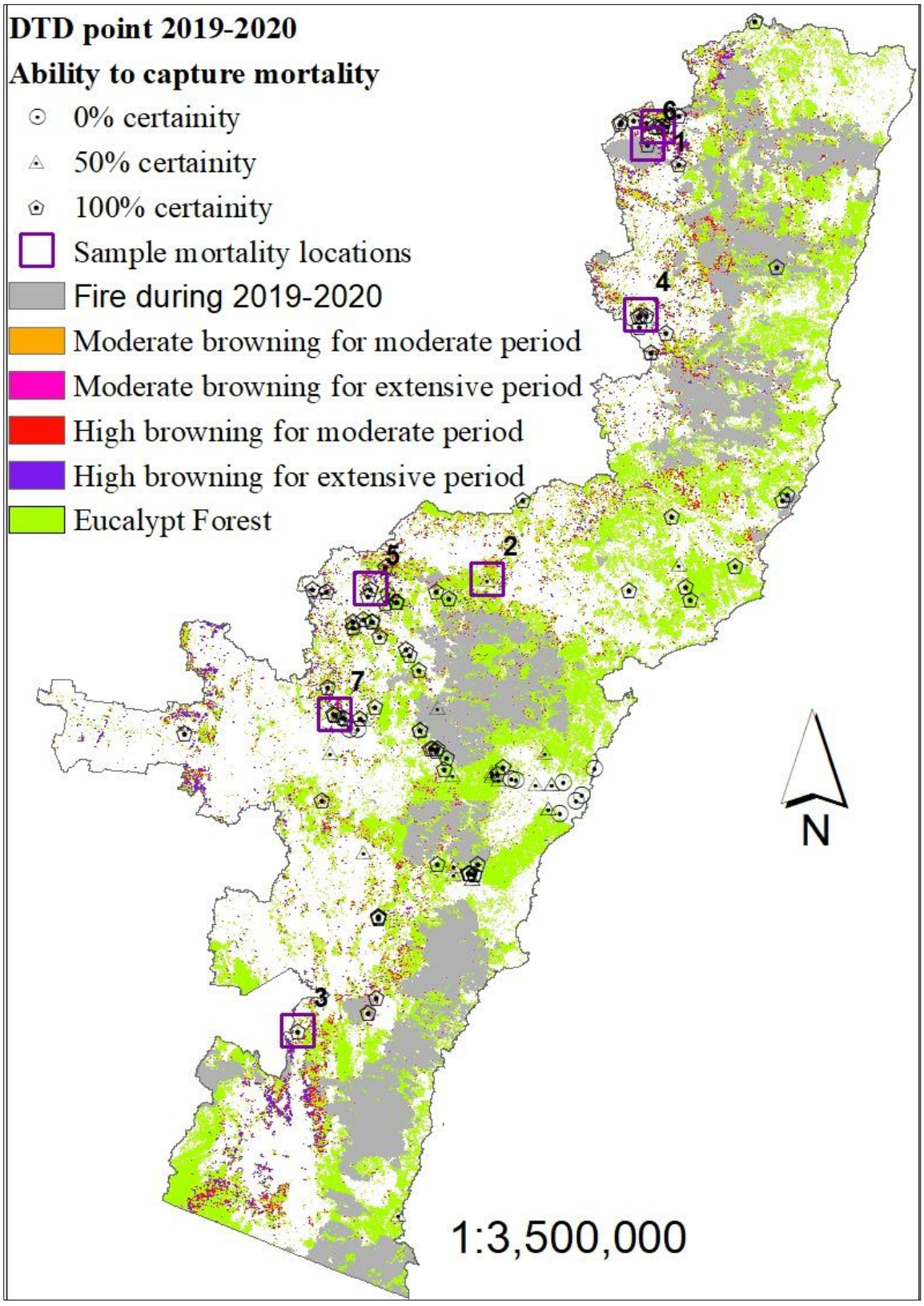


Figure S6: Drought-induced tree browning areas as a fraction of the total Eucalyptus forests and woodlands, overlaid with DTD locations. The black points represent records from the DTD database, filtered for the peak drought period of 2019-20. The maroon-colored squares which have numbered indicate sample locations used to visually correlate the mortality thresholds with photos from the DTD. The DTD records have been classified for different levels of certainty in the detectability of mortality risk pixels: circles denote a 0% ability to capture using RS data, triangles represent a 50% certainty level of capturing mortality, and pentagons show records with 100% chance of detectability.

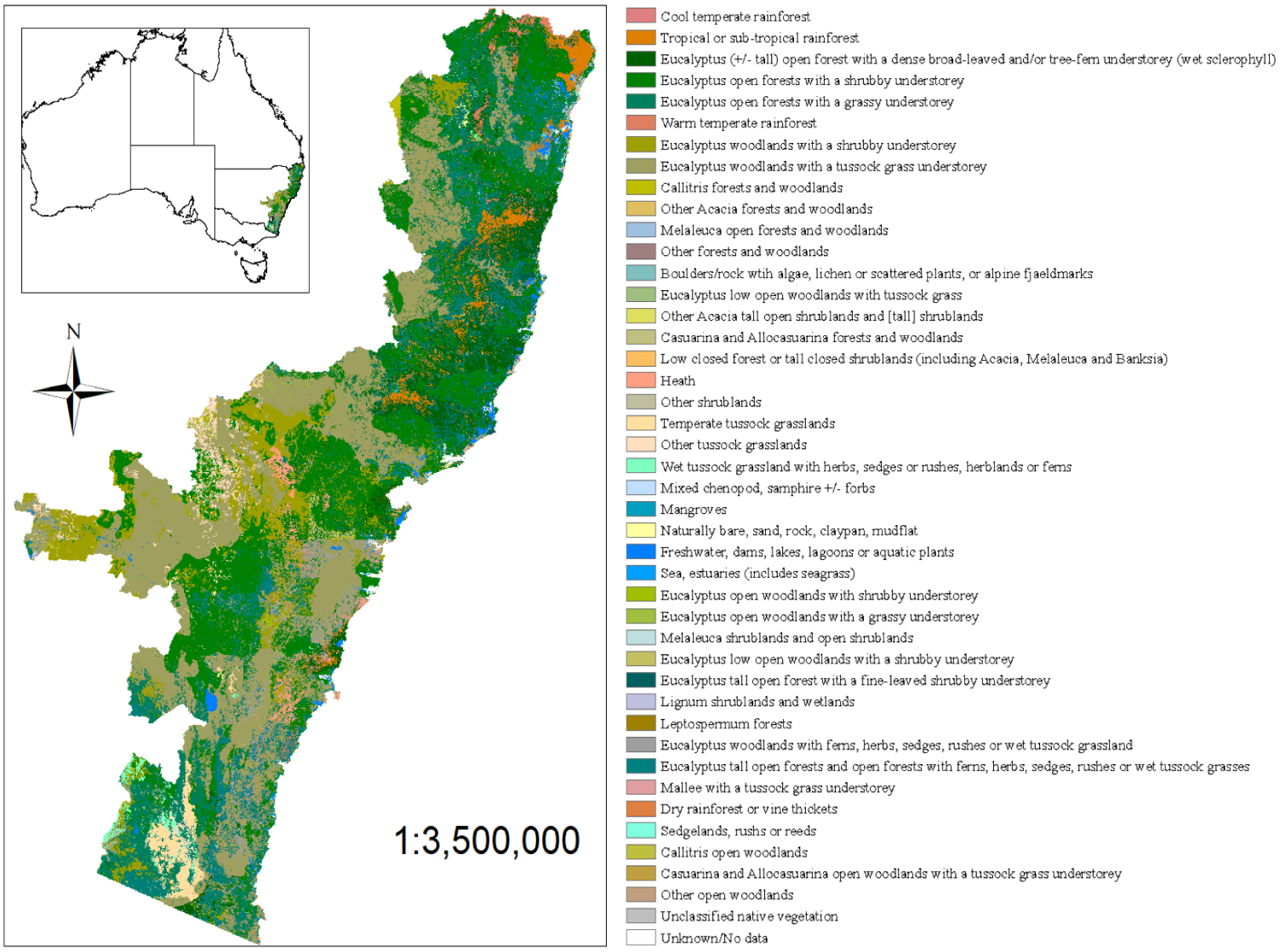


Figure S7: Different vegetation types exist across the entire study area, according to the classification based on National Vegetation Information System Version 6.0

Table S1: Examples of photo instances from the DTD (Dead Tree Detective web portal) for different geographic locations across the study area, corresponding to the levels of mortality risk severity detected from the threshold maps shown in Figure S6.

Bioregion	Geolocation (Lat, Lon)	Sample location number (and activity ID mentioned in DTD portal)	Severity Given by the Threshold map	Photo	Dead Tree Observation
New England Tableand (1)	-29.048085,151.772726	1 (7c46eeca-2fae-4453-9c01-dc0bd14ba097)	High browning for Extensive period	 	• Recorded by: Brendan Choat • Could be drought-related? ○ Yes

Sydney Basin	-32.401, 150.174	2 (93b894f5-c83c-4bd4-ac7c-87600a123487)	Moderate browning for Extensive period	   	• Recorded by: Belinda Medlyn • Could be drought-related? ○ Yes

Bioregion	Geolocation (Lat, Lon)	Sample location number (and activity ID mentioned in DTD portal)	Severity Given by the Threshold map	Photo	Dead Tree Observation
South Eastern Highland	-35.438068,149.684917	3 (76b5cb50-dc10-436e-b27b-2e1005381c5c)	Mixed of all the threshold classifications		•Recorded by: Roger Noakes •Could be drought-related? ○Yes
North Coast	-31.860104, 51.873098	4 (28dc49e2-8956-4716-9282-f3b06b5beca5)	Moderate browning for Moderate period	 	•Recorded by: Brendan Choat •Could be drought-related? ○Yes

Bioregion	Geolocation (Lat, Lon)	Sample location number (and activity ID mentioned in DTD portal)	Severity Given by the Threshold map	Photo	Dead Tree Observation
					
Southwestern Sloped	-32.384467,149.699568	5 c17d349a-d536-4528-9020-d0258975b5b4	High browning for Extensive period		• Recorded by: Tom Kelly • Could be drought-related? ○ Yes

Bioregion	Geolocation (Lat, Lon)	Sample location number (and activity ID mentioned in DTD portal)	Severity Given by the Threshold map	Photo	Dead Tree Observation
New England Tablelands	-29.172205,151.699193	6 (9036ebce-0914-4a49-aaab-f6eb51264775)	High browning for Moderate period		•Recorded by: Grant Webster •Could be drought-related? ○Yes
North Coast	-30.059289,152.632278	7 (e21ba414-d60f-4943-9ee8-c03ea066d1b5)	High browning for Moderate period		•Recorded by: Jess Drake •Could be drought-related? ○Yes