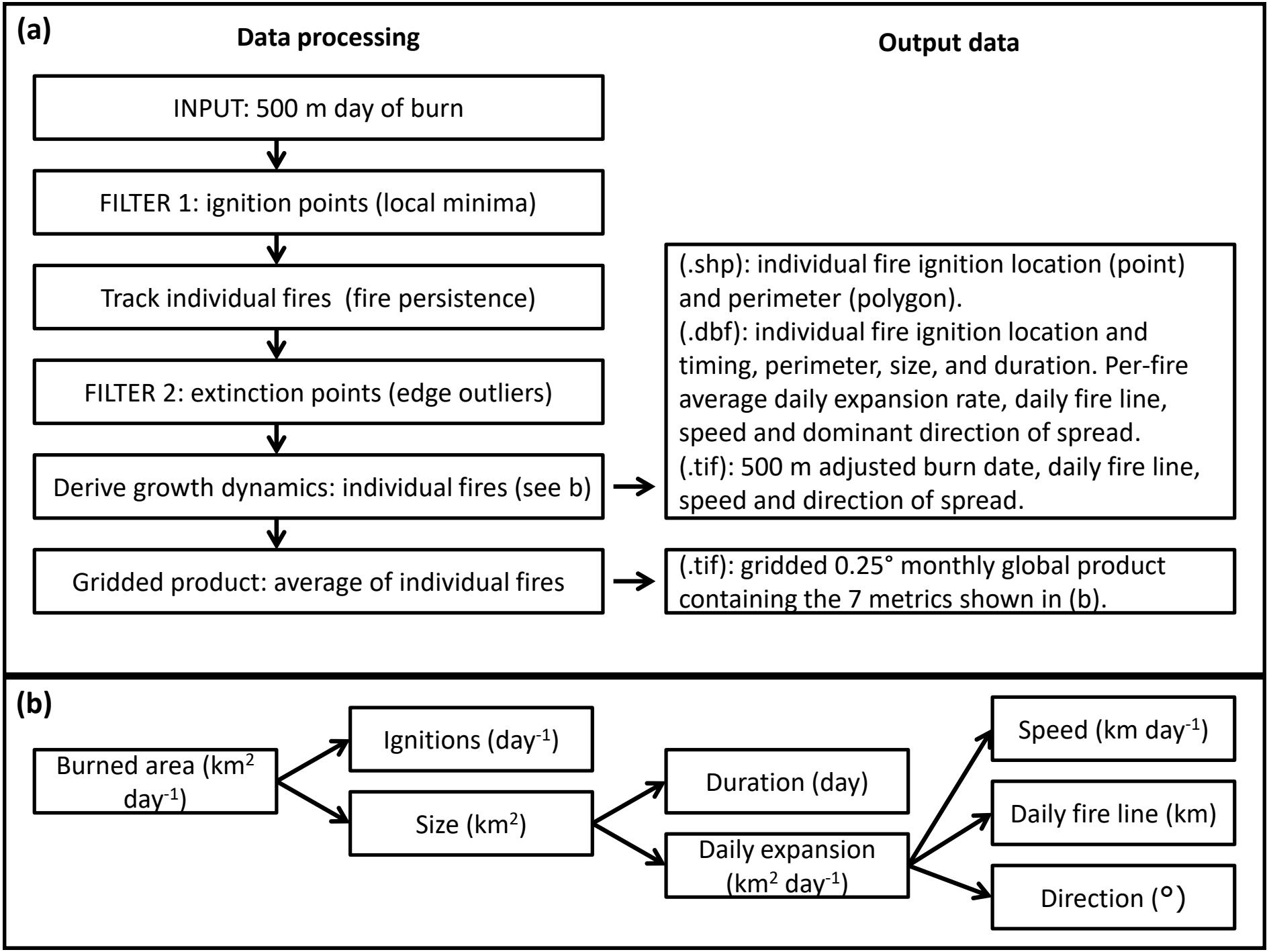
(a)
Data processing
Output data
INPUT: 500 m day of burn
FILTER 1: ignition points (local minima)
Track individual fires (fire persistence)
FILTER 2: extinction points (edge outliers)
Derive growth dynamics: individual fires (see b)
Gridded product: average of individual fires
(.shp): individual fire ignition location (point) and perimeter (polygon).
(.dbf): individual fire ignition location and timing, perimeter, size, and duration. Per-fire average daily expansion rate, daily fire line, speed and dominant direction of spread.
(.tif): 500 m adjusted burn date, daily fire line, speed and direction of spread.
(.tif): gridded 0.25° monthly global product containing the 7 metrics shown in (b).
(b)
Burned area (km2 day-1)
Ignitions (day-1)
Size (km2)
Duration (day)
Daily expansion (km2 day-1)
Speed (km day-1)
Daily fire line (km)
Direction (°)