ESTIMATION OF FORMATION PARAMETERS OF A THERMAL BELT ACT ESA WILDFIRE ANALYSIS TOOLS #4 Jan 2010 DURING BUSHFIRE OPERATIONS

For a thermal belt to form, in general ticks are needed in all three boxes...

Continental air mass? Low wind speed?

Clear sky?

NOTE: Drainage lines will carry the temperature of the height of their headwater from some past time. This time lag reflects their length, gradient and vegetation cover. A drainage flow of 100m drop per hour is assumed.

With time the depth of the pool of coolest air and the drainage inversion will increase. This depth will reflect topography (e.g. damming by a pinchpoint).

