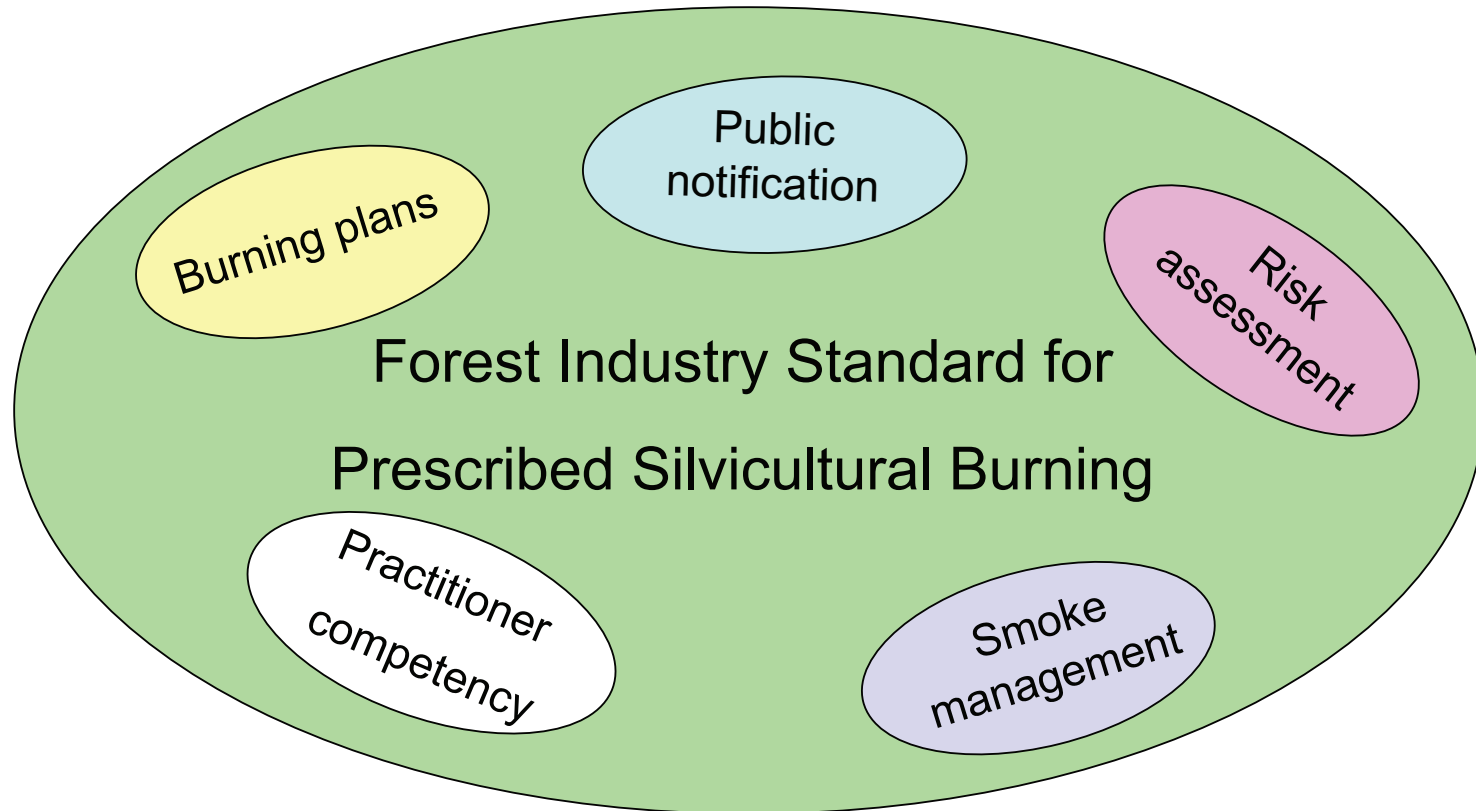


Coordinated Smoke Management Strategy (CSMS)

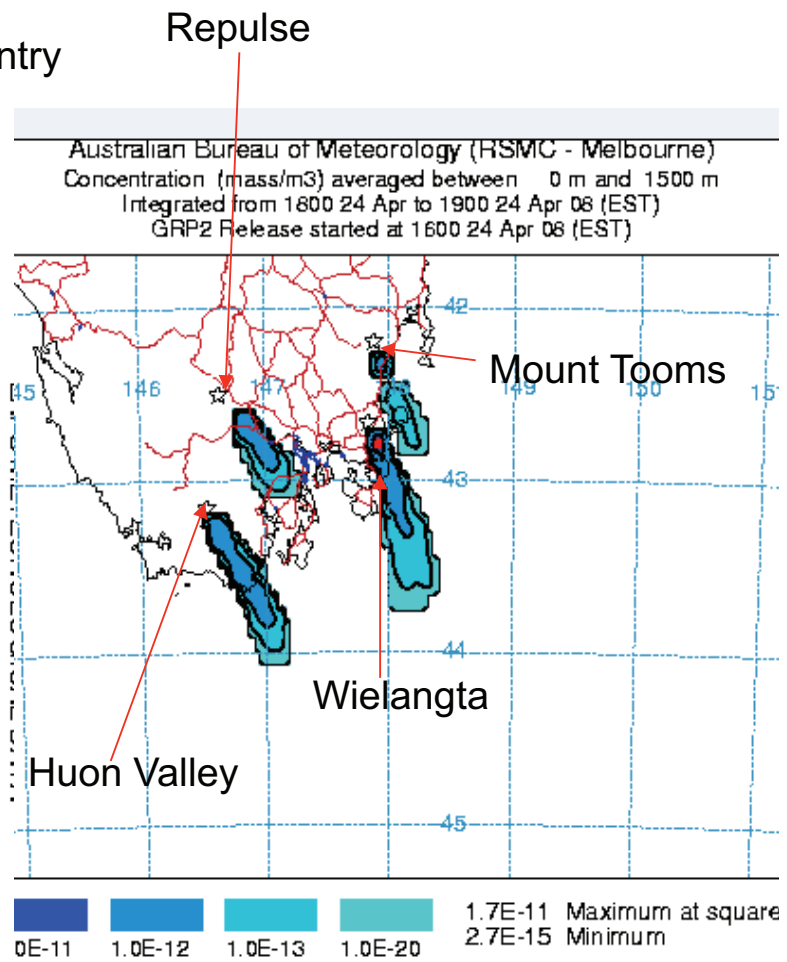
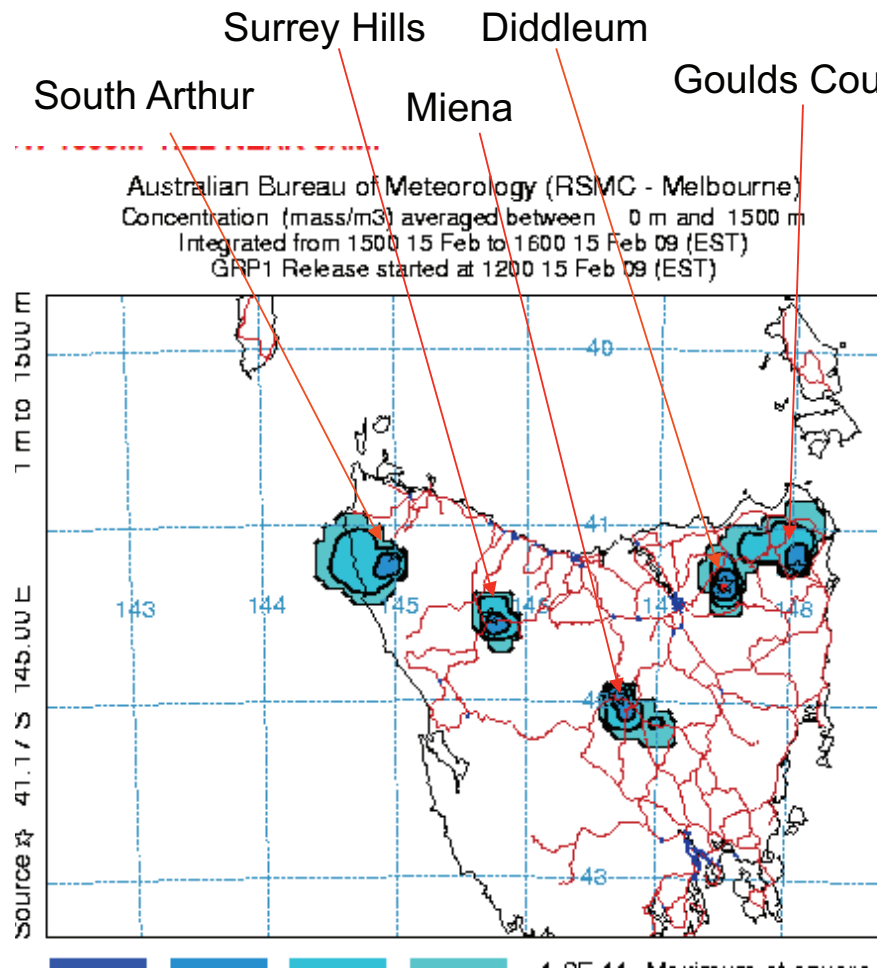


Implementation Plan for
2009

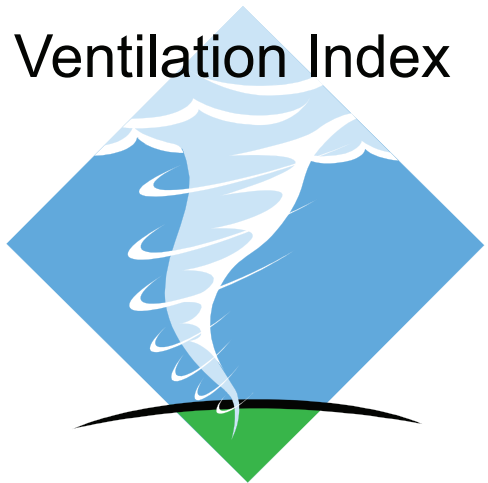
“Smoke Management” is a part of the Forest Industry Standard for PSB



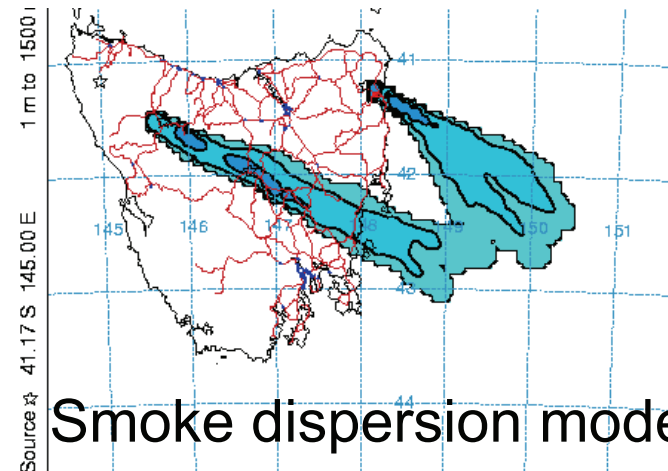
The 'Airsheds'



Inputs to the CSMS

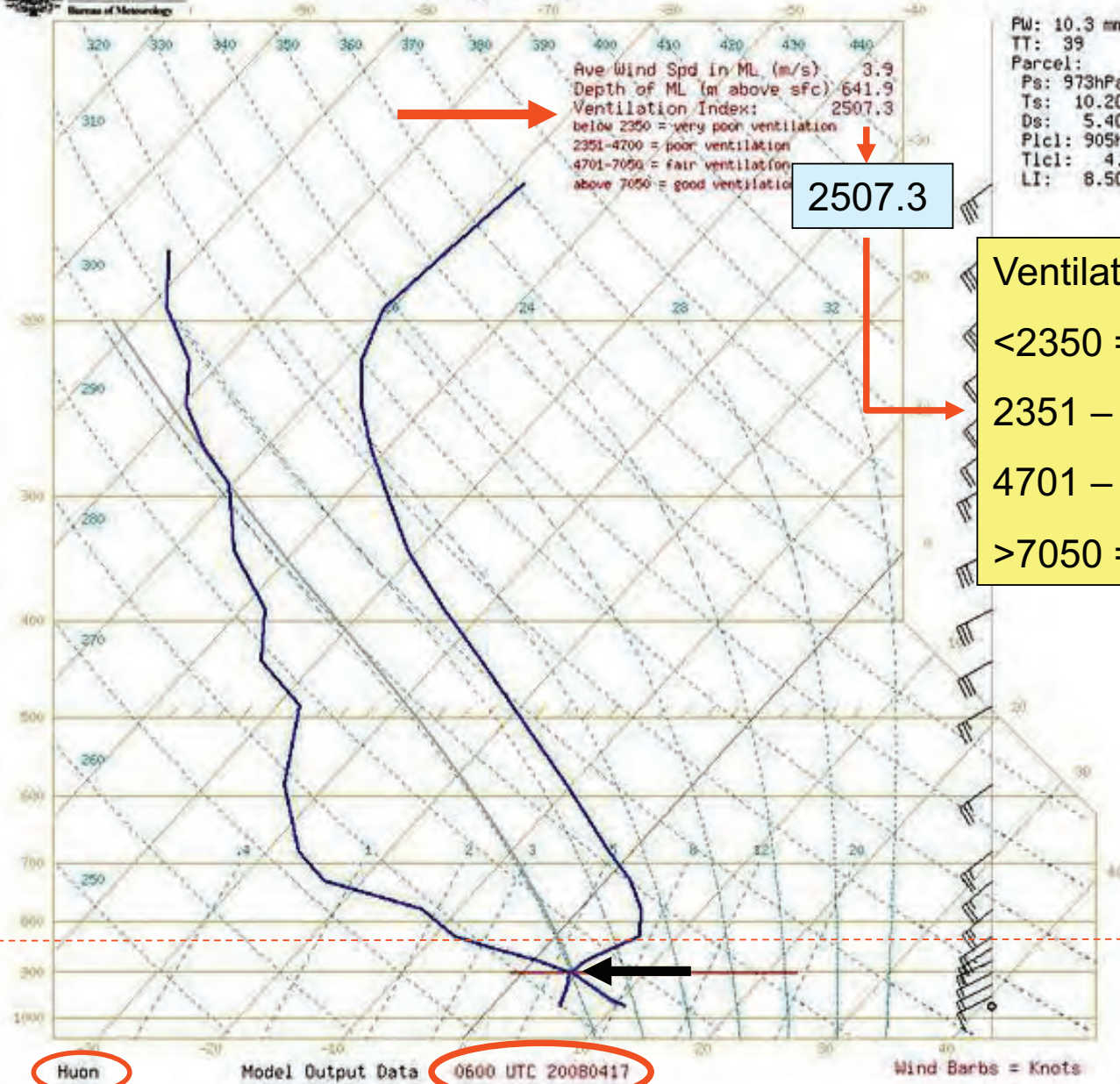


Fuel Weight Index



5.3E-12 Maximum at square
2.8E-16 Minimum

Aerological Diagram



1500 m

Fuel Weight Index



Heavy fuels (ha X 40)



Light fuels (ha X 15)



Very Light fuels (ha X 5)

Effect of a Fuel Weight Index

Burn area: 50 ha

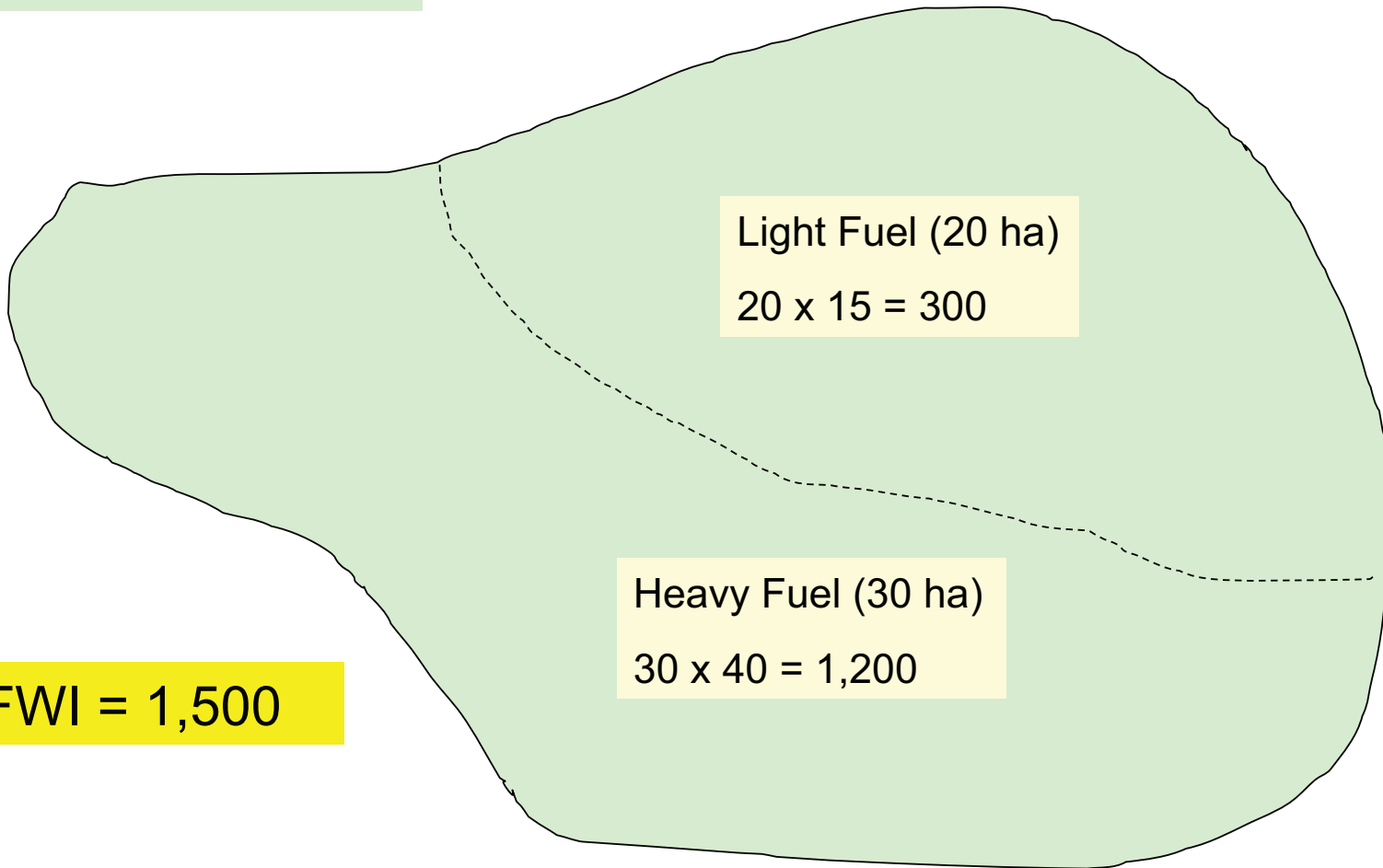
Light Fuel (20 ha)

$$20 \times 15 = 300$$

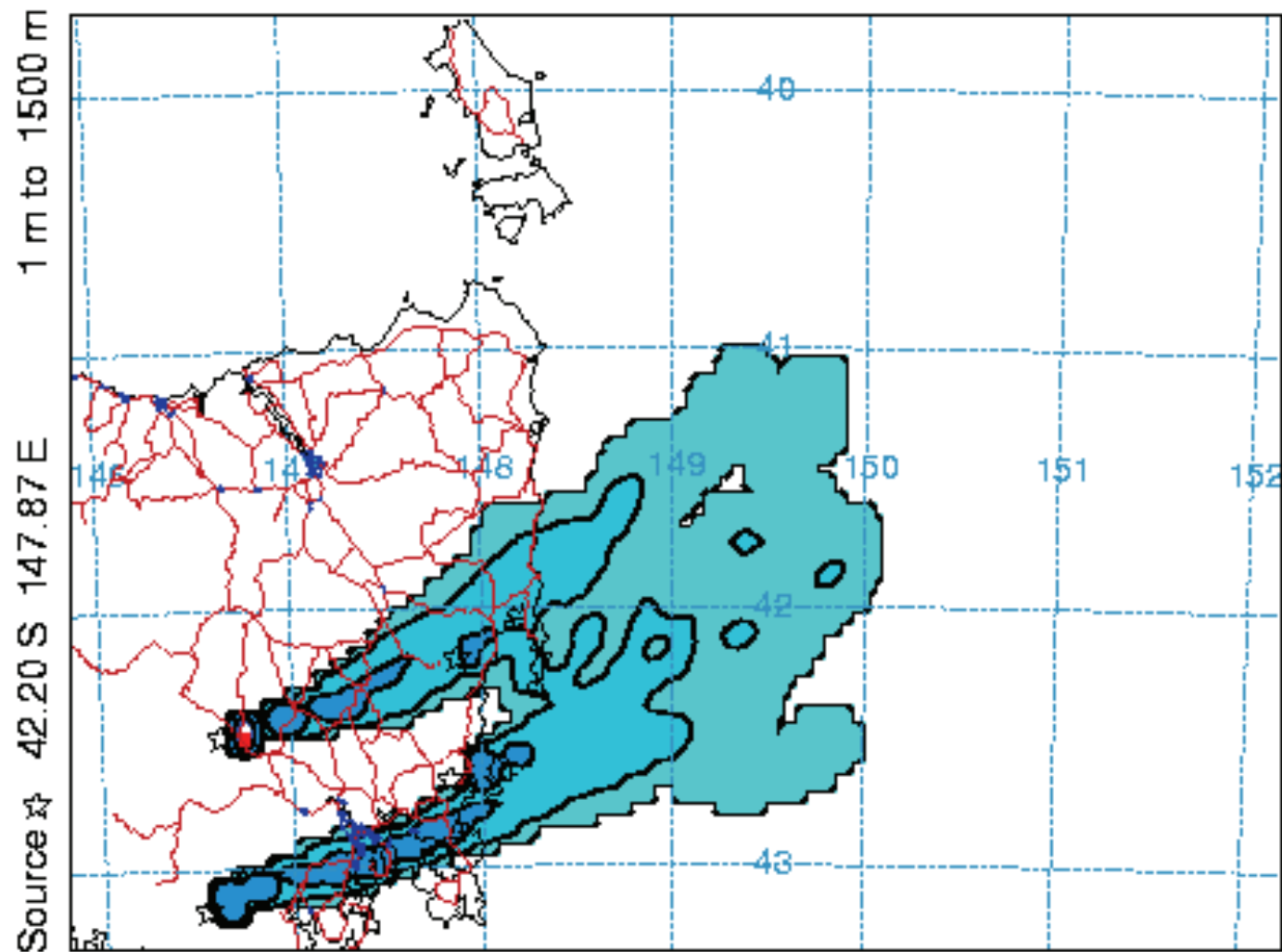
Heavy Fuel (30 ha)

$$30 \times 40 = 1,200$$

FWI = 1,500



Australian Bureau of Meteorology (HSMC - Melbourne)
Concentration (mass/m³) averaged between 0 m and 1500 m
Integrated from 1700 16 Apr to 1800 16 Apr 08 (EST)
GRP2 Release started at 1200 16 Apr 08 (EST)



1.0E-11 1.0E-12 1.0E-13 1.0E-20 2.6E-11 Maximum at square
1.8E-16 Minimum

Airshed Assumed Capacity Table

Ventilation Index predicted for 1600 on day of burn	FWI Base units for airshed	Inversion height > 1500 m add units	Inversion height <1500 m subtract units	Favourable Dispersion Model add units	Unfavourable Dispersion Model subtract units	Best Case Total FWI	Worst Case Total FWI
Good	15000	5000	5000	33% Of Part A	33% Of Part A	26600	6700
Fair	12500	5000	5000			23275	1725
Poor	7500	5000	5000			16625	0
Very Poor	2500	5000	5000			9975	0
Part A				Part B			

08/04/09	Airshed: Repulse			
	Registered	Part A	Part B	Completed
Company A	11,200	5,600	+ 1,860	7,460
Company B	1,800	900	+ 300	1,200
Company C	1,000	500	+ 170	670
Company D	6,000	3,000	+ 1,000	4,000
Total FWI	20,000	10,000	+3,330	13,330
Ventilation Index	Good			
Inversion Height (m)	<1500			
Part A (allowable)	10,000			
Adjust by:	- 50%			

“No Burning” Days

0900: PM 10 = 50 &/or PM 2.5 = 25

Unless:

- Forecast Ventilation Index >7050
- Forecast inversion Height is >1500m
- Dispersion model is “favourable”