



*Supplement of*

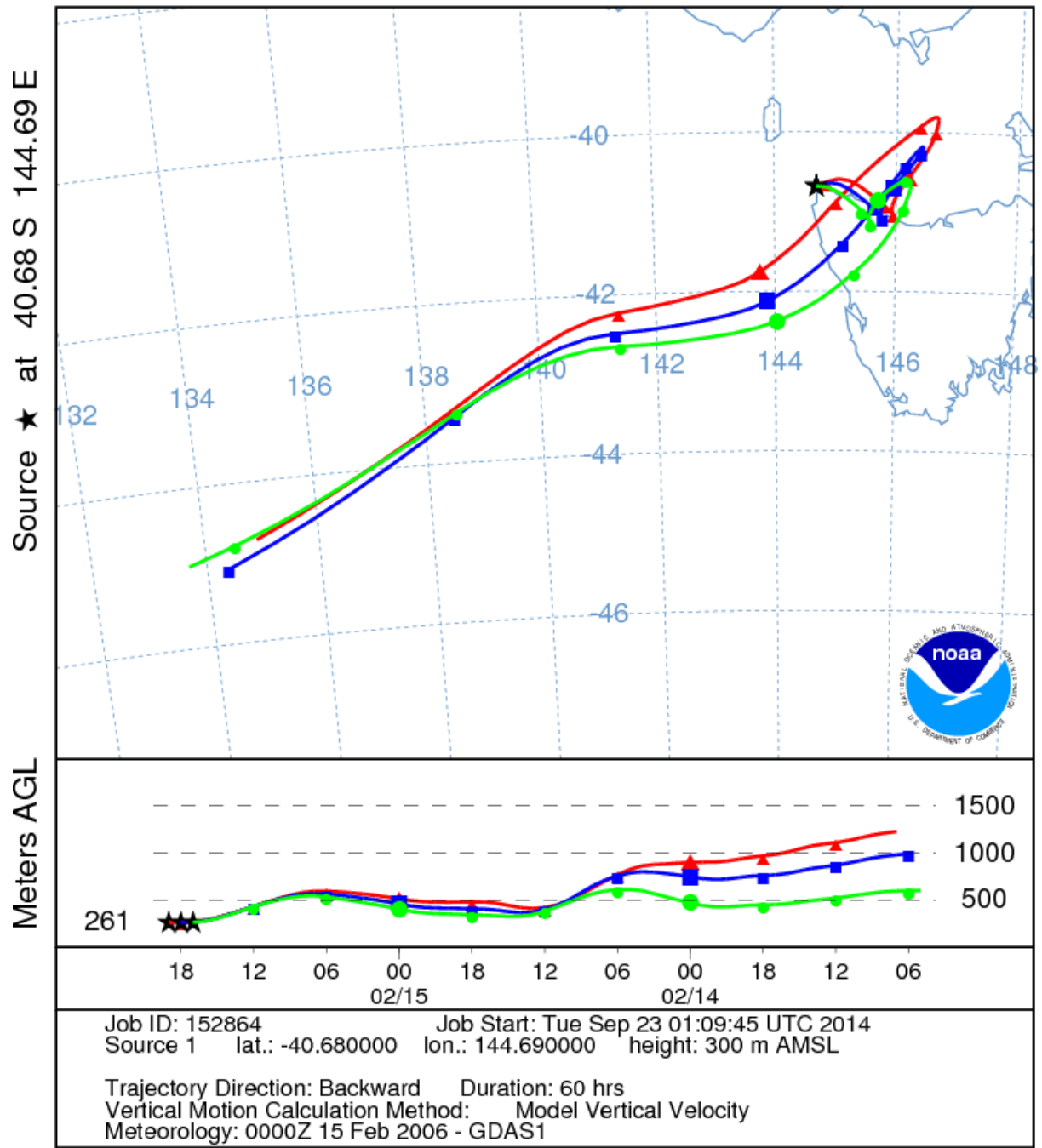
## **Biomass burning emissions of trace gases and particles in marine air at Cape Grim, Tasmania, 41° S**

**S. J. Lawson et al.**

*Correspondence to:* S. J. Lawson ([sarah.lawson@csiro.au](mailto:sarah.lawson@csiro.au))

The copyright of individual parts of the supplement might differ from the CC-BY 3.0 licence.

NOAA HYSPLIT MODEL  
 Backward trajectories ending at 1900 UTC 15 Feb 06  
 GDAS Meteorological Data

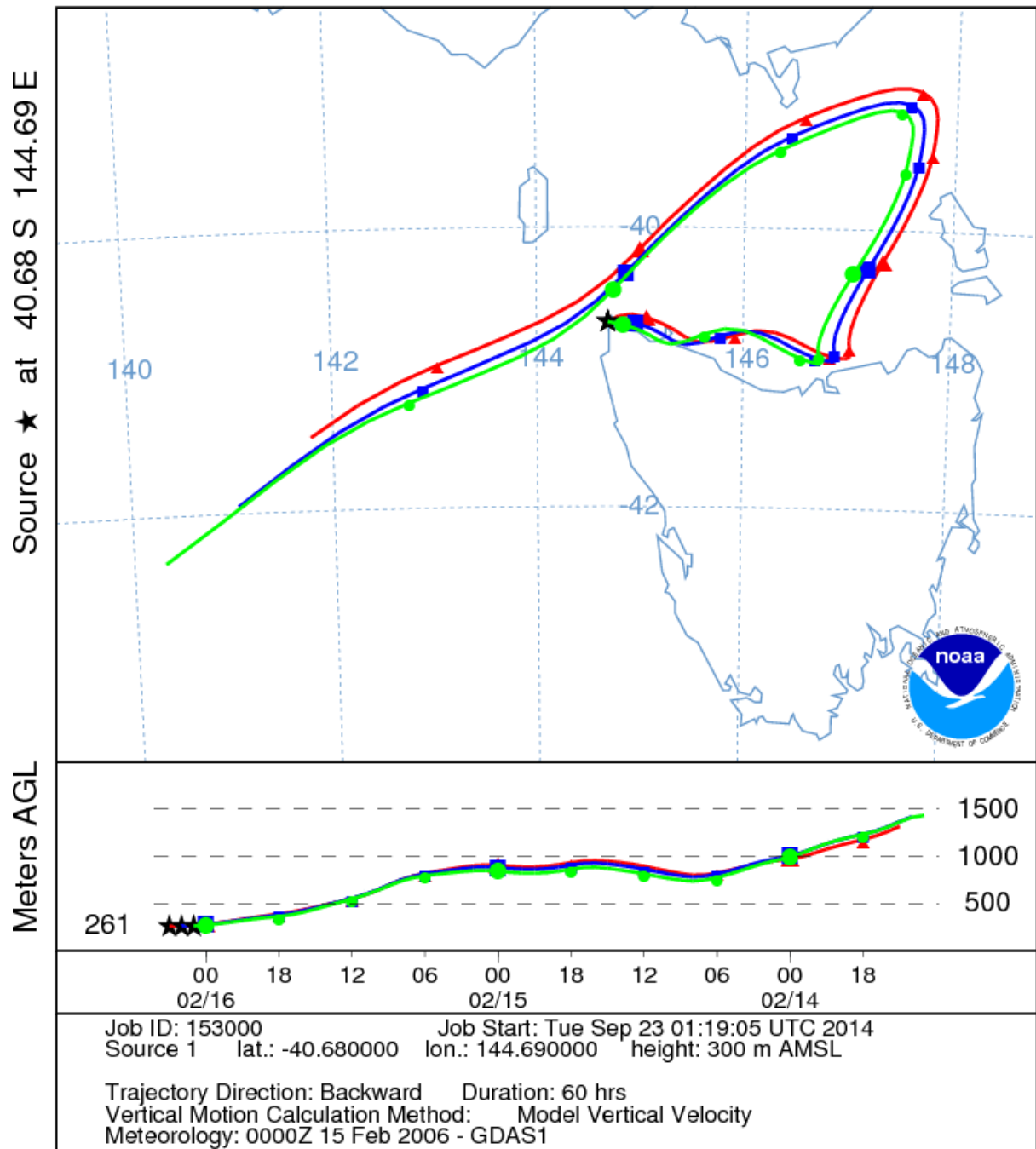


1

2 Fig 1a. Air mass back trajectory corresponding to BB1 Period A, fresh BB plume

3

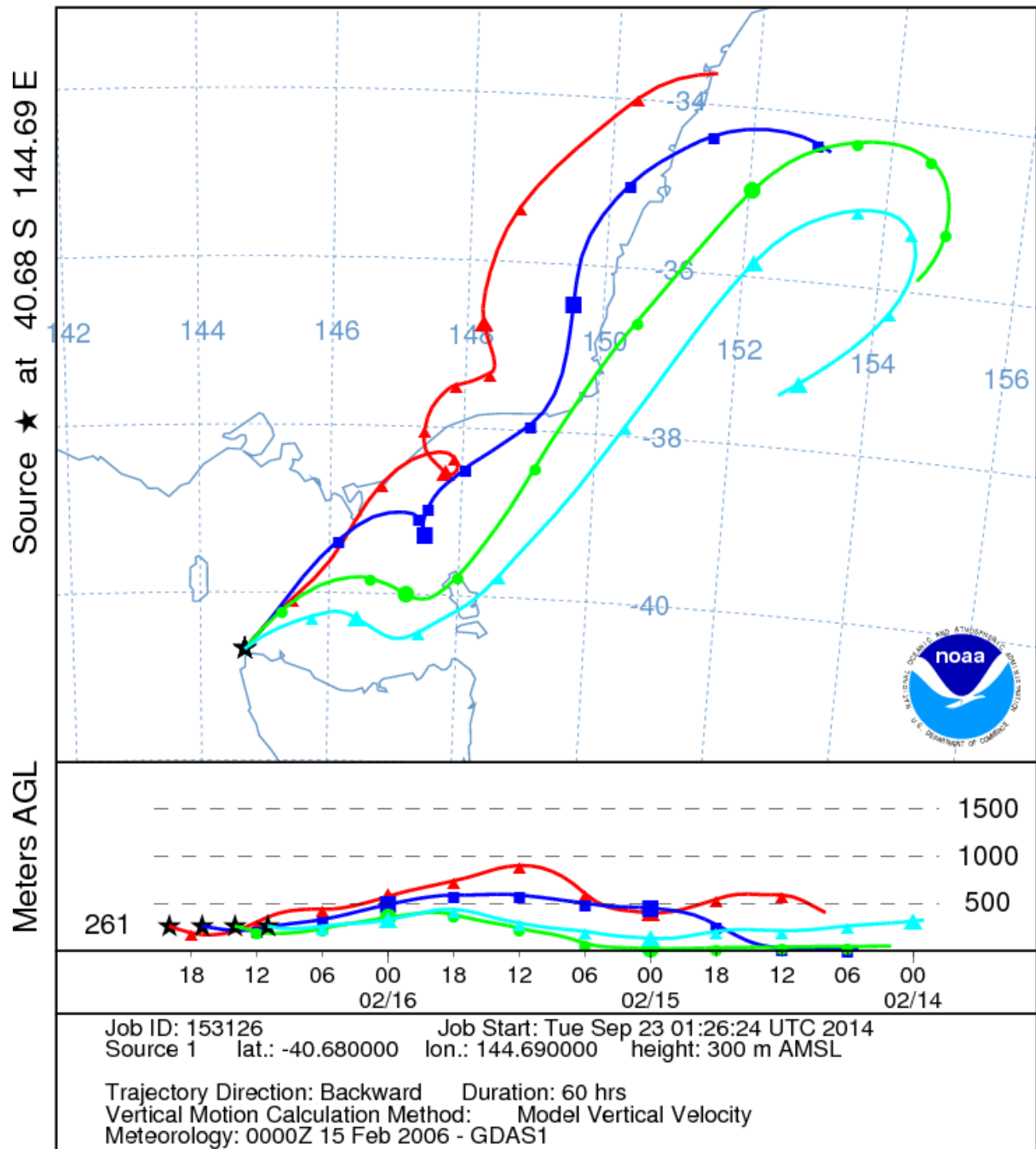
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 0300 UTC 16 Feb 06  
 GDAS Meteorological Data



1

2 Fig 1b. Air mass back trajectory corresponding to BB1 Period B, particle growth event

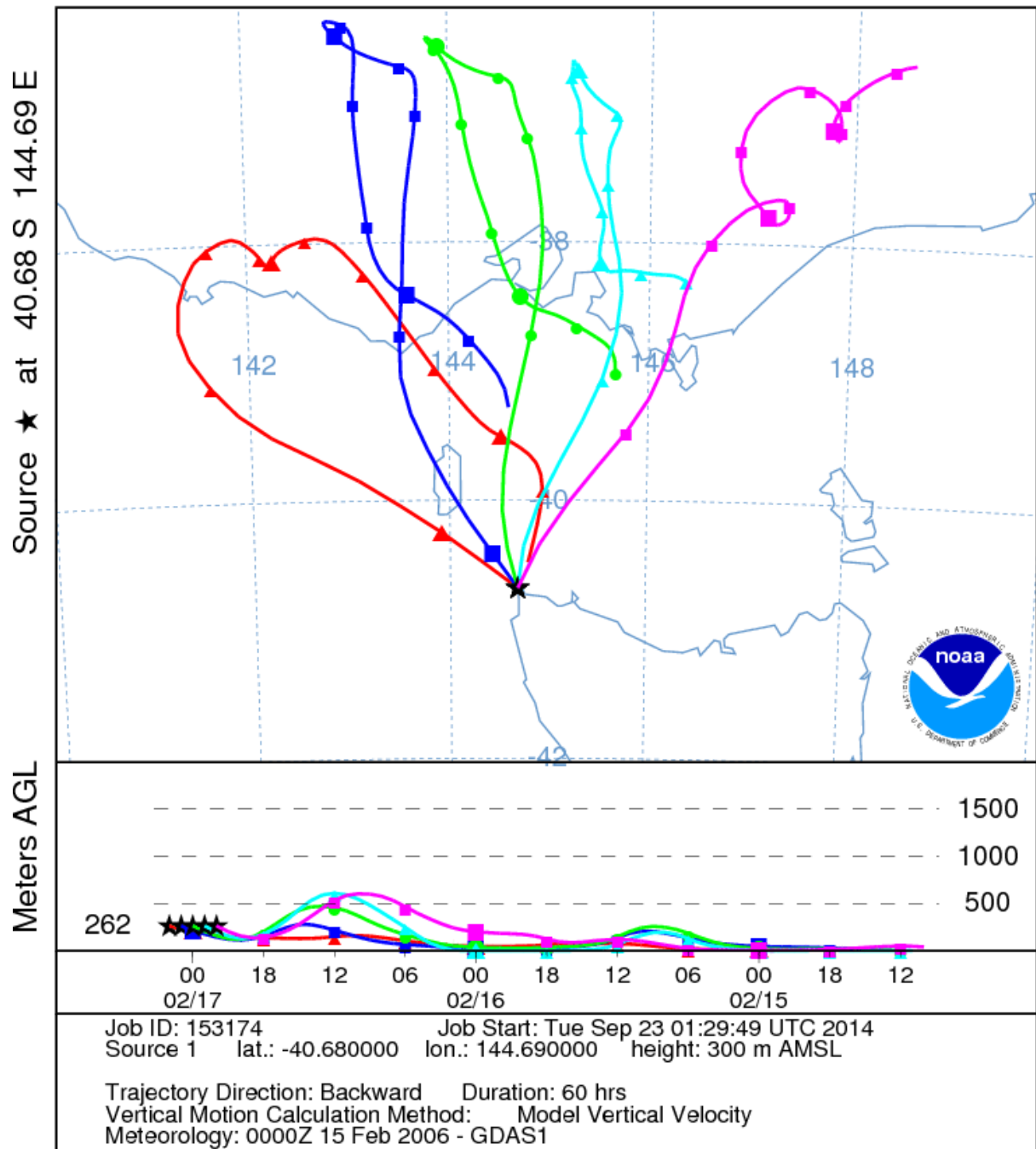
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 2000 UTC 16 Feb 06  
 GDAS Meteorological Data



1

2 Fig 1c. Air mass back trajectory corresponding to BB1 Period C, mainland influence (background)

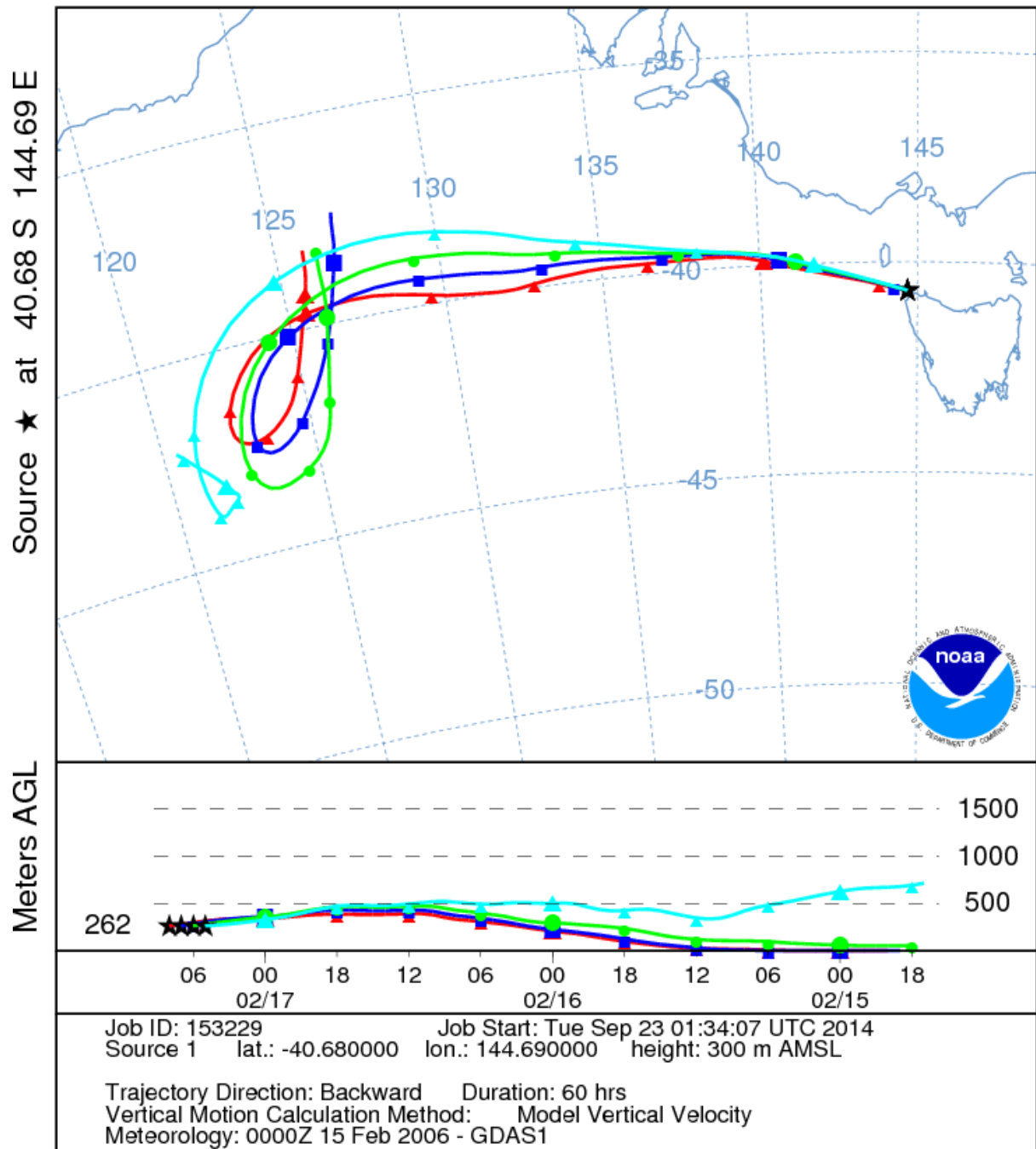
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 0200 UTC 17 Feb 06  
 GDAS Meteorological Data



1

2 Fig 1d. Air mass back trajectory corresponding to BB1 Period D, mainland influence (urban)

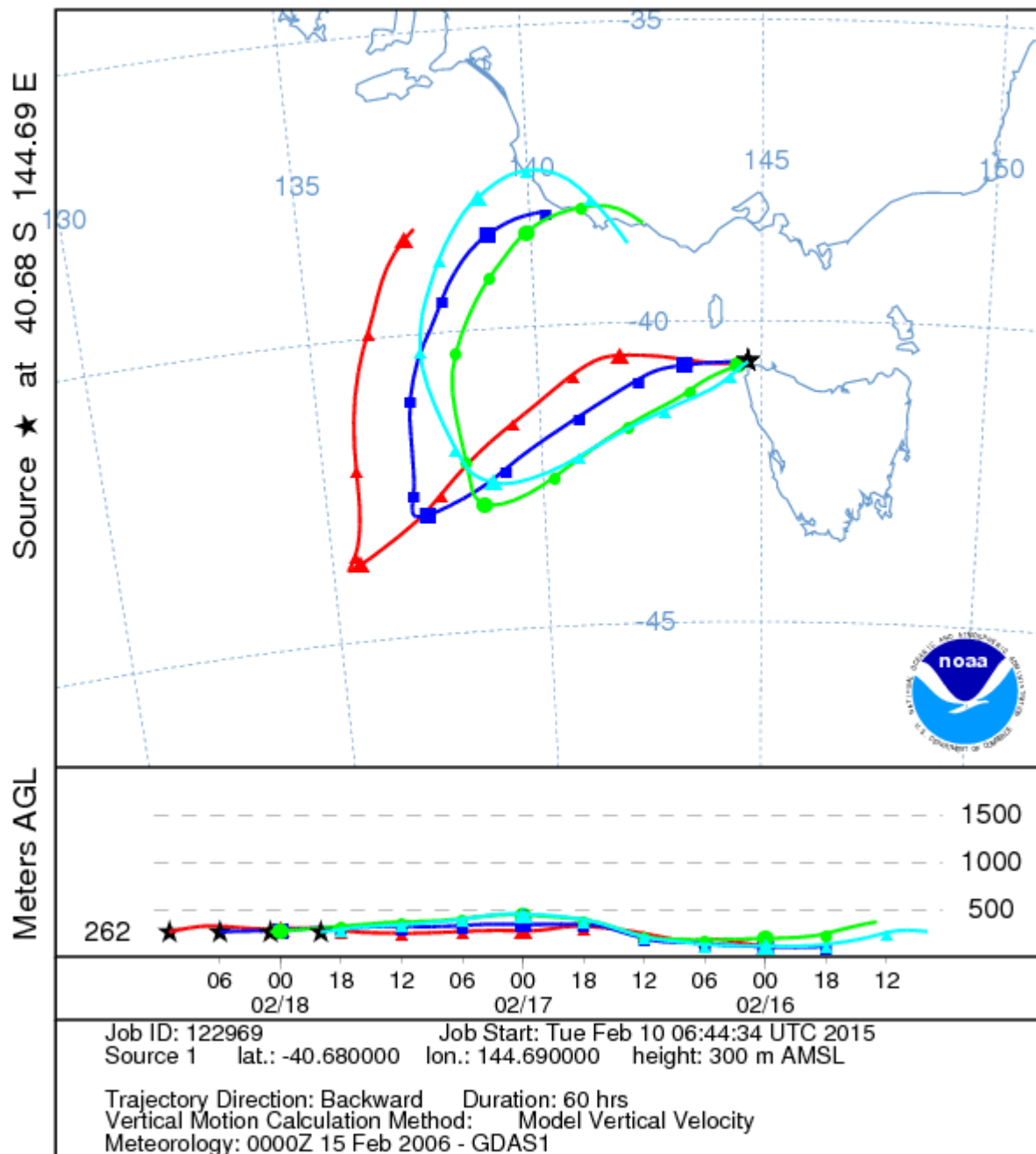
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 0800 UTC 17 Feb 06  
 GDAS Meteorological Data



1

2 Fig 1e. Air mass back trajectory corresponding to BB1 Period E, clean marine air

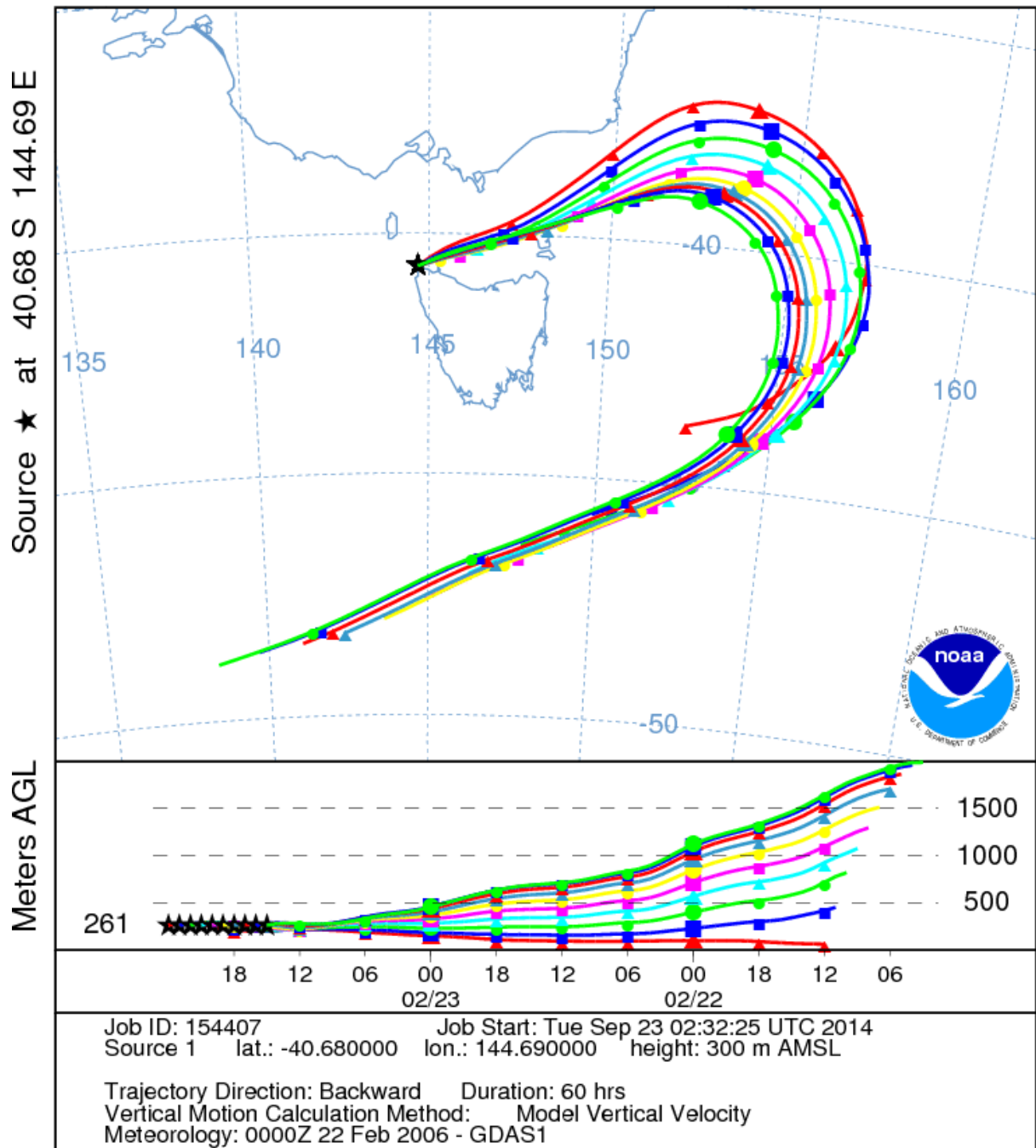
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 1100 UTC 18 Feb 06  
 GDAS Meteorological Data



1  
2  
3  
4  
5  
6  
7

Fig 1 f. Air mass back trajectory corresponding to BB1 Period F, marine air with minor terrestrial influence

NOAA HYSPLIT MODEL  
 Backward trajectories ending at 0000 UTC 24 Feb 06  
 GDAS Meteorological Data

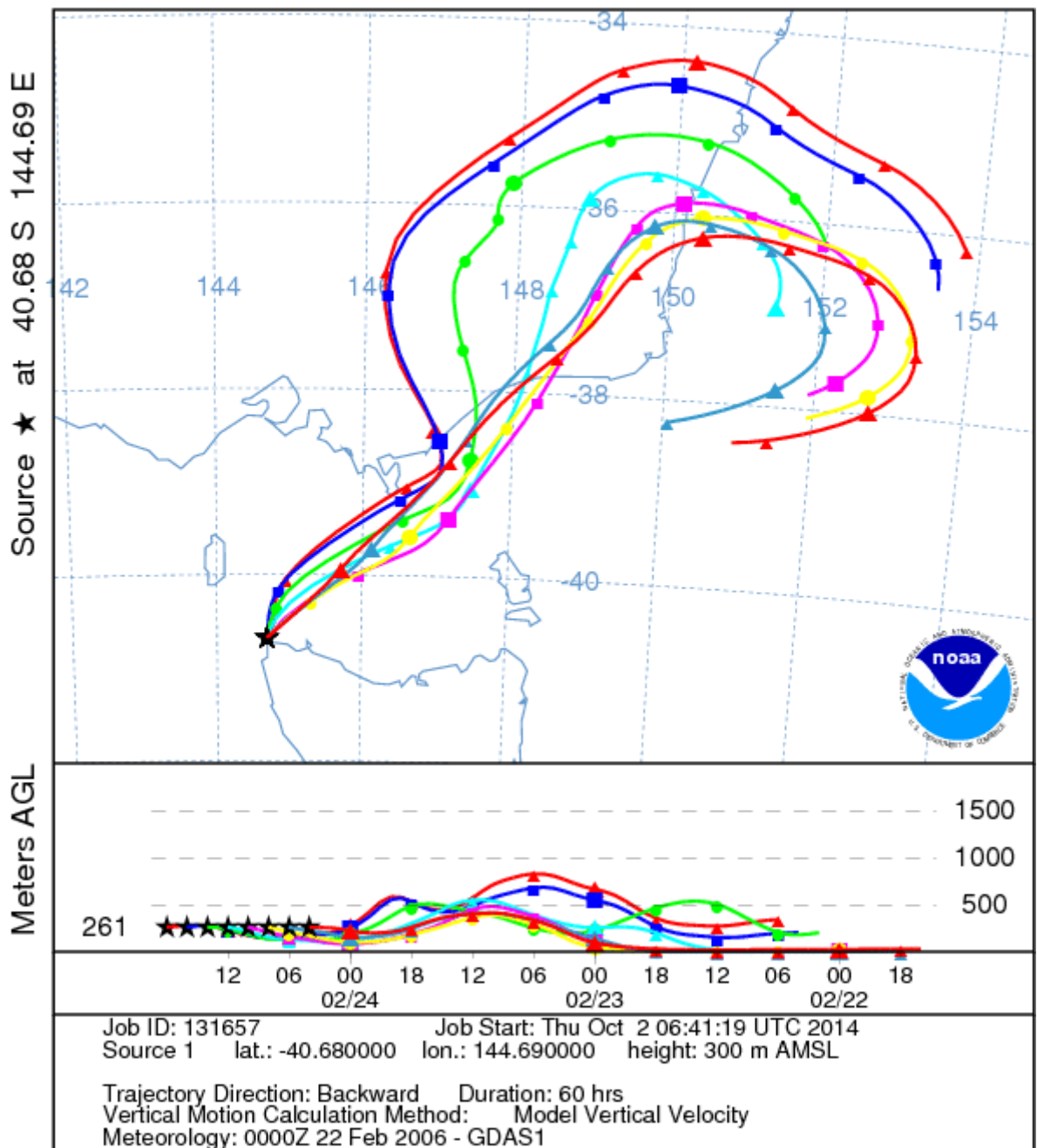


1

2 Fig 2a. Air mass back trajectory corresponding to BB2 Period A, fresh BB plume



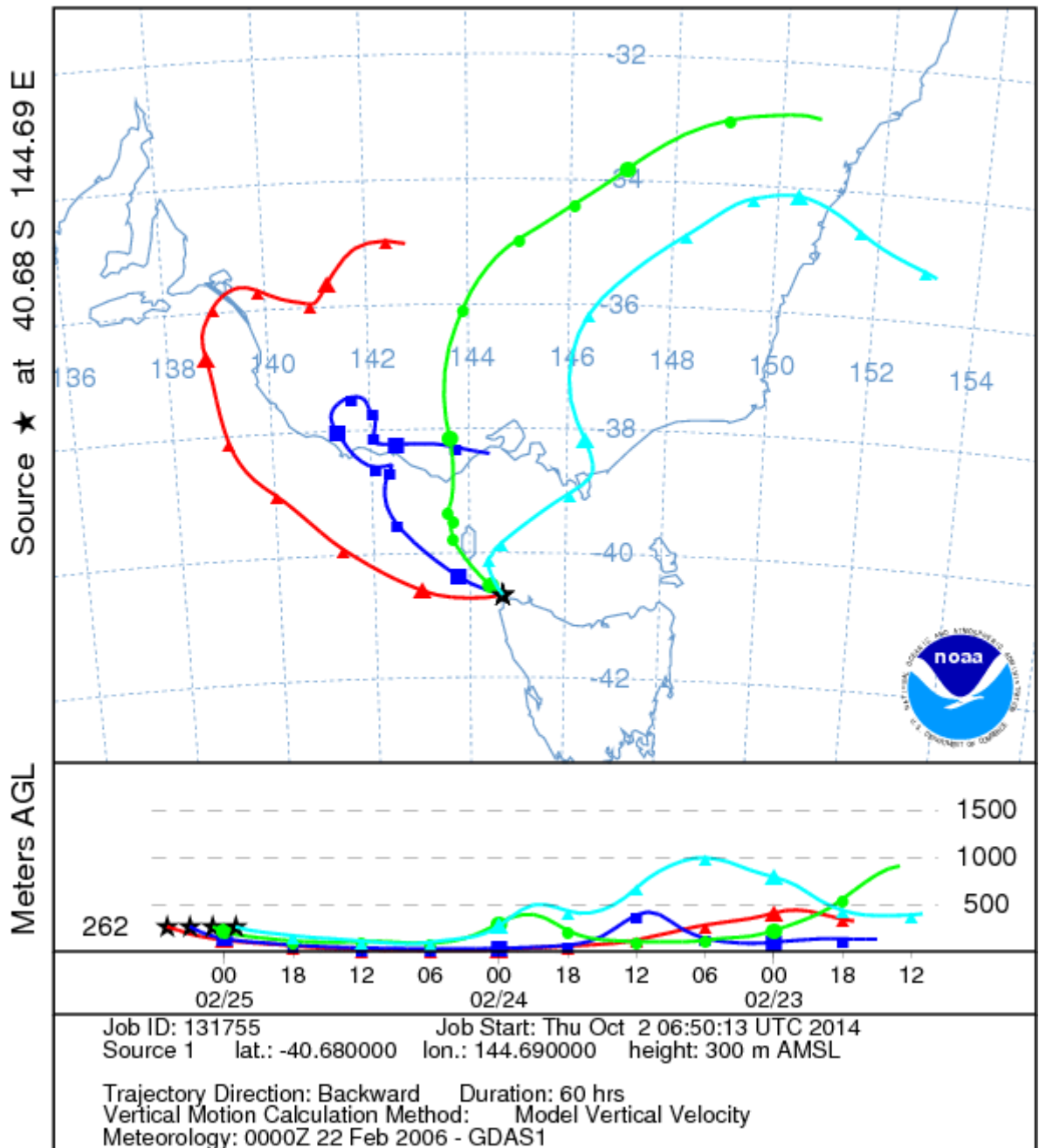
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 1800 UTC 24 Feb 06  
 GDAS Meteorological Data



1  
 2

3 Fig 2b. Air mass back trajectory corresponding to BB2 Period B, mainland influence (background)

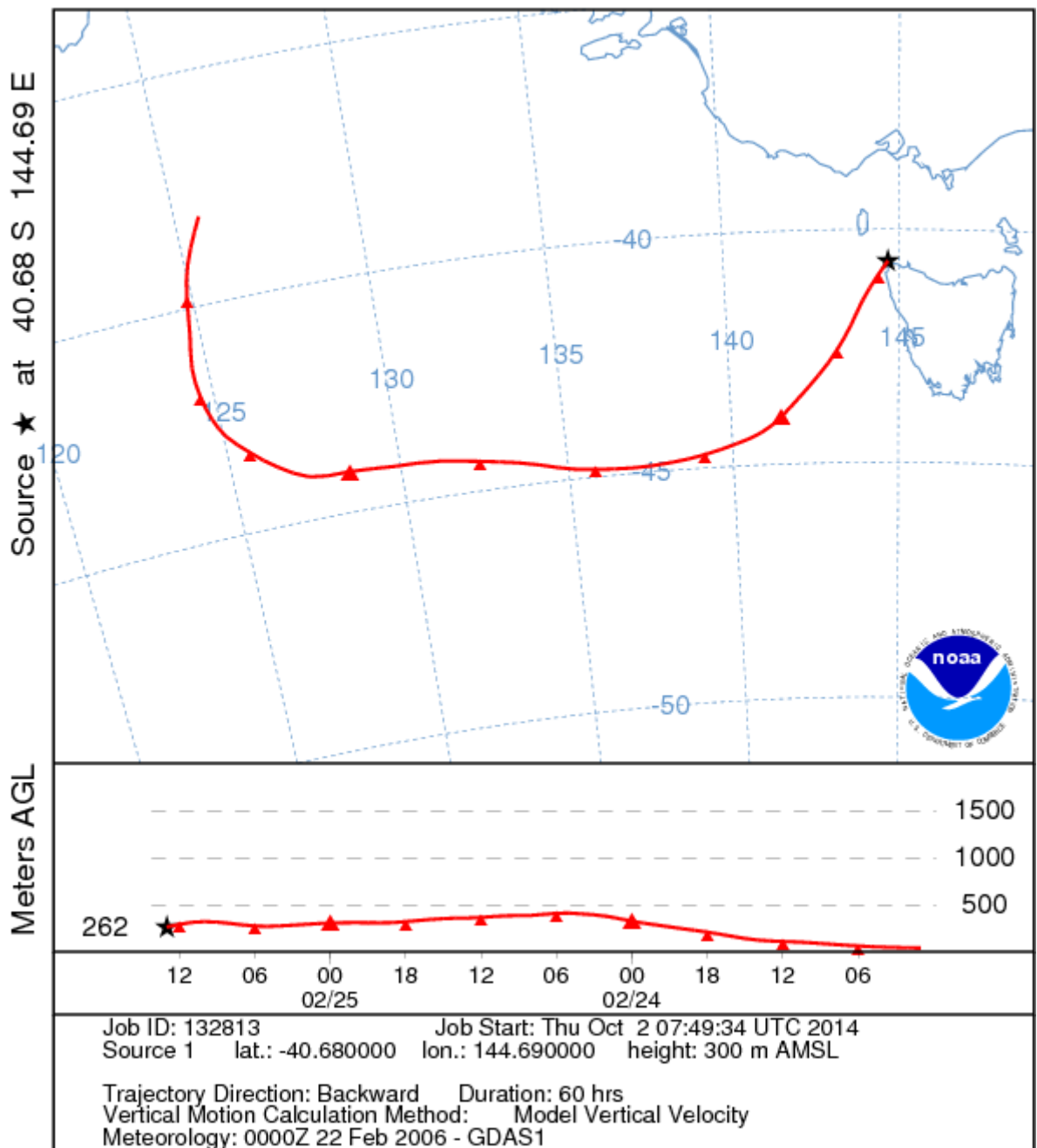
NOAA HYSPLIT MODEL  
 Backward trajectories ending at 0500 UTC 25 Feb 06  
 GDAS Meteorological Data



1  
 2

3 Fig 2c. Air mass back trajectory corresponding to BB2 Period C, mainland influence (urban)

NOAA HYSPLIT MODEL  
 Backward trajectory ending at 1300 UTC 25 Feb 06  
 GDAS Meteorological Data



1  
2  
3

Fig 2d. Air mass back trajectory corresponding to BB2 Period D, clean marine air