

Flow over Complex Terrain as measured by aircraft

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In February 2002, a study of flow over complex terrain was carried out in the context of assessing odour problems encountered in a valley downwind of a petro-chemical plant just inland from the coast near Gladstone/Queensland/Australia. The purpose of the flights was to validate data from a numerical model describing the airflow over some ridges inland of the plant.

Flights were carried out along a valley and across the two ridges as shown in Figure 1. Mean and turbulent quantities of relevant atmospheric parameters (wind, air temperature and humidity) were measured and will be presented at the Conference.

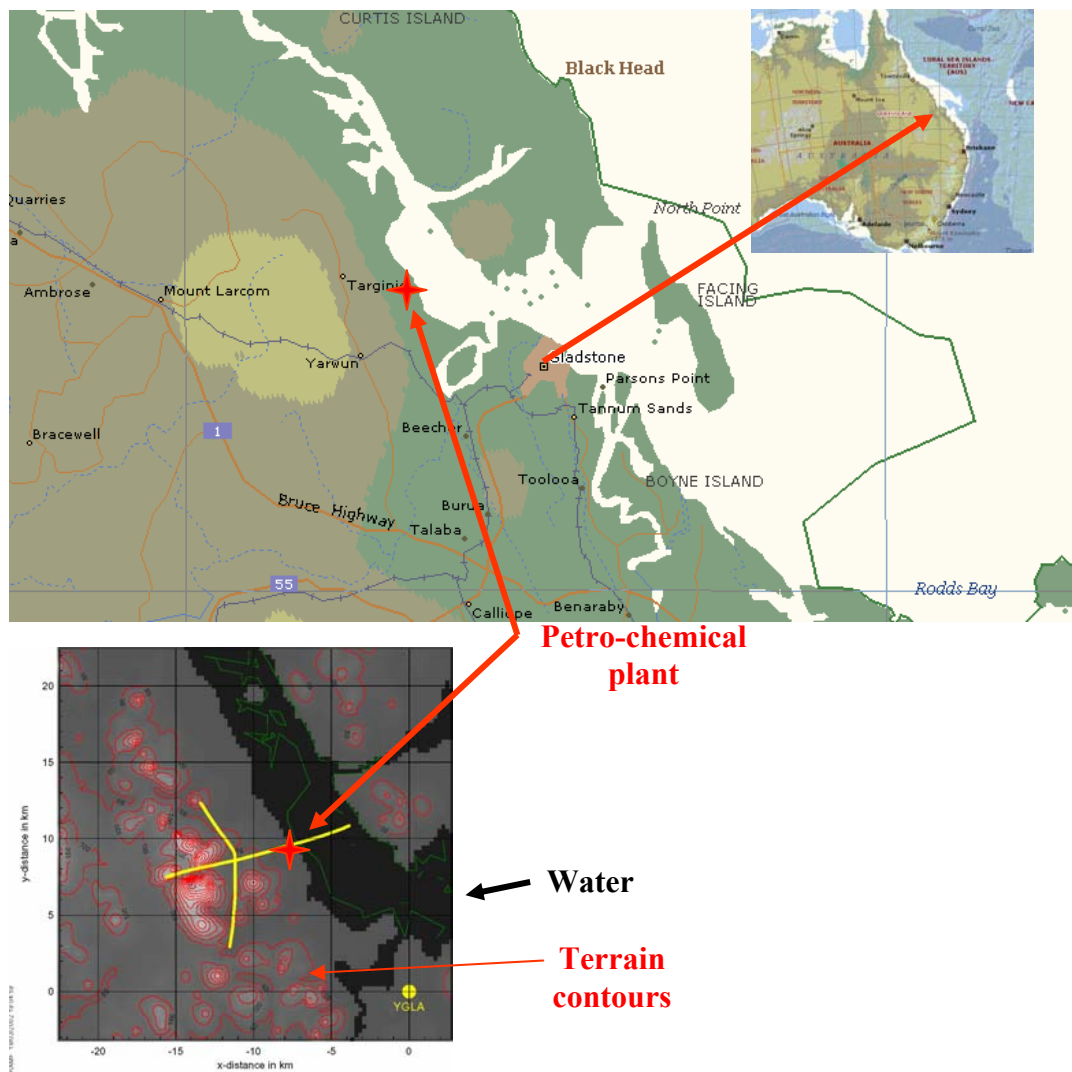


Figure 1 Flights near Gladstone/Q., Australia. The star shows the location of the petro-chemical plant. The yellow lines in the bottom diagram show the flight track along the valley and across the two ridges.