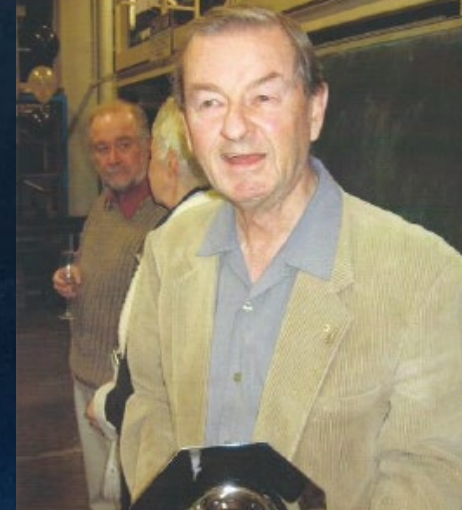
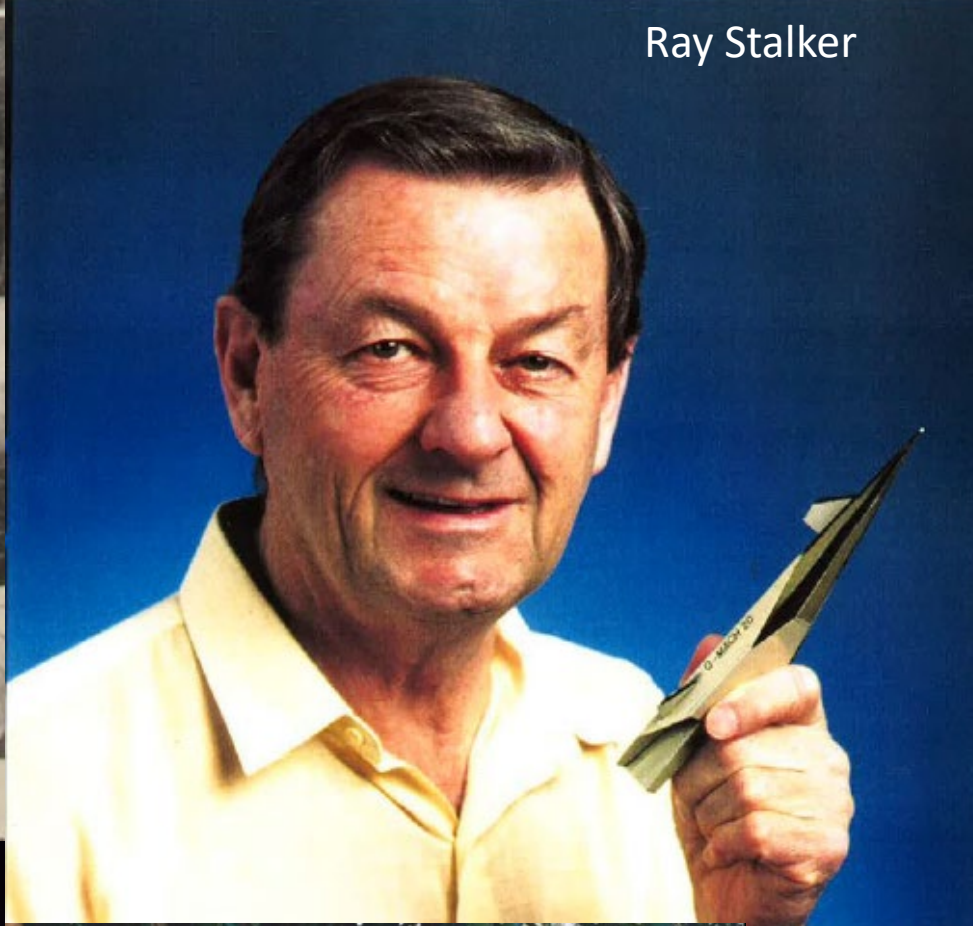
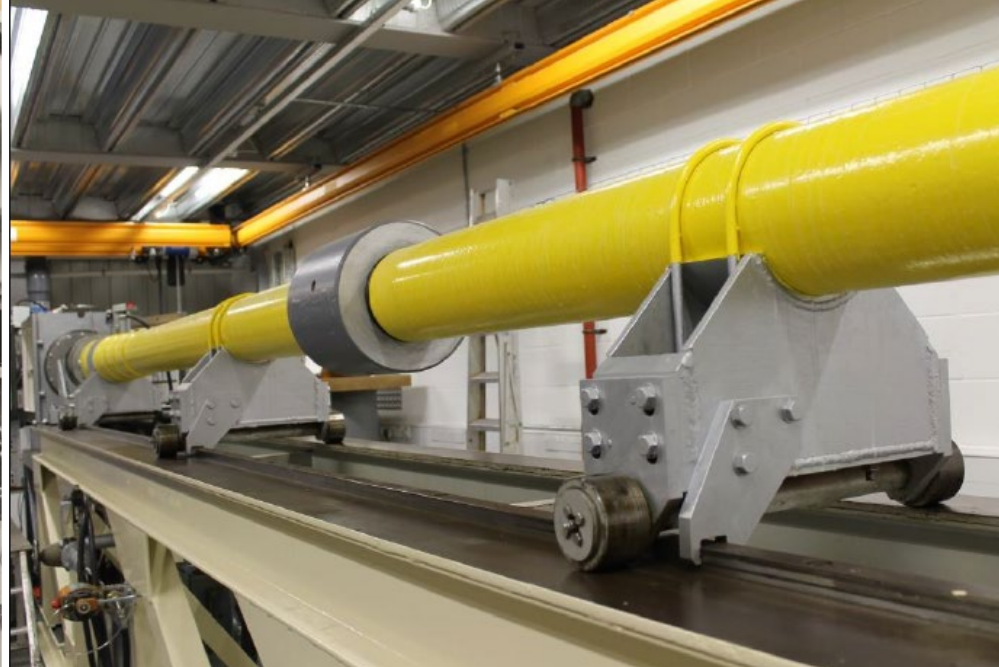
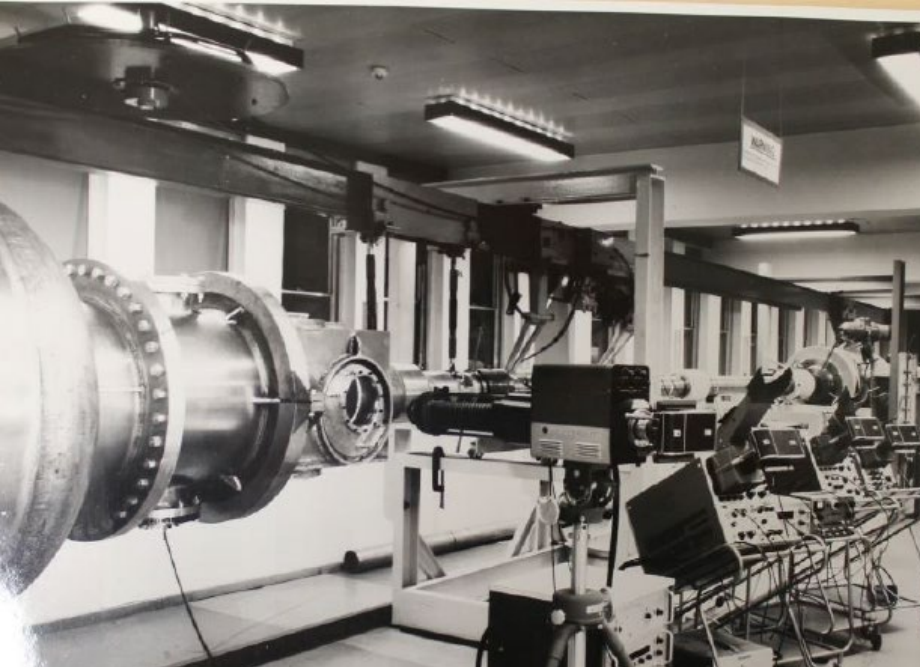


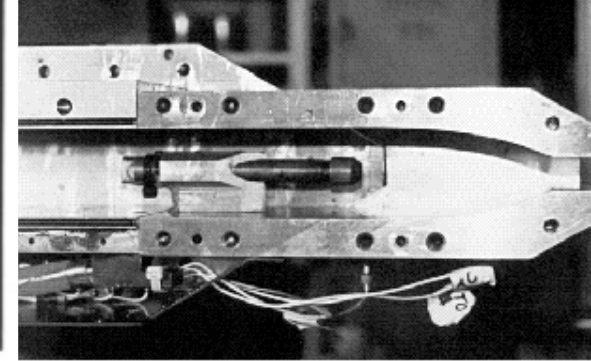
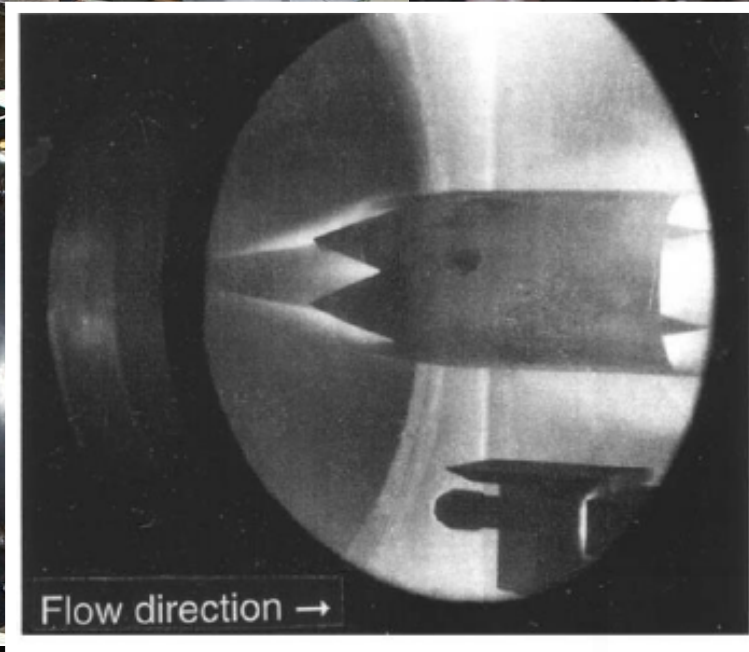
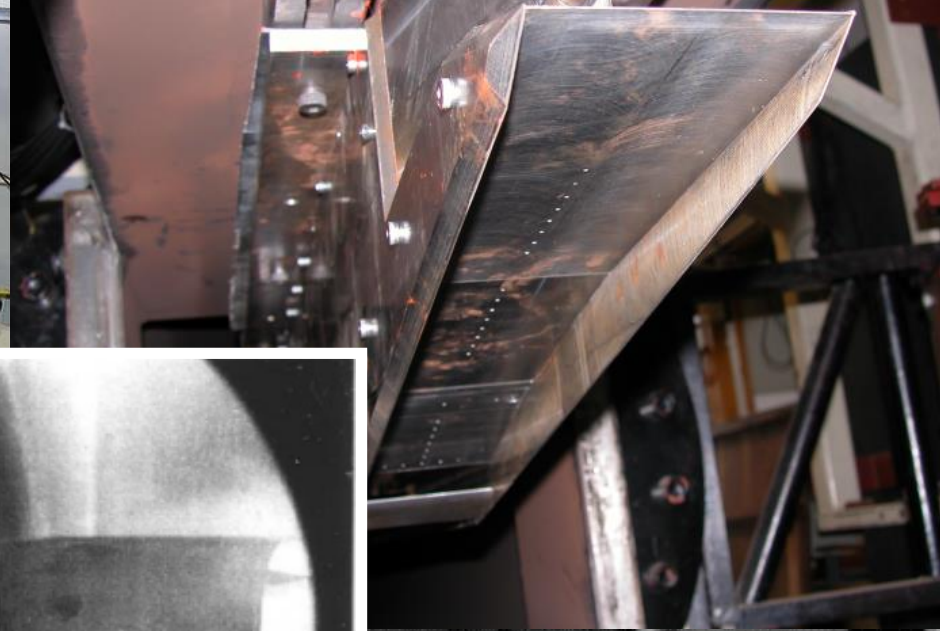
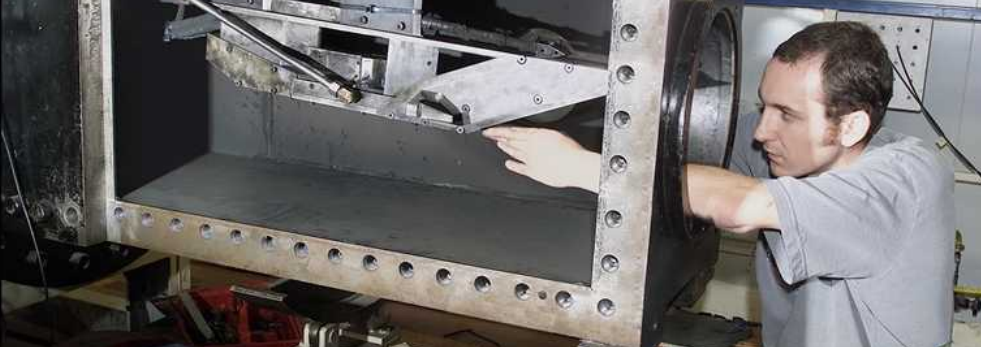
Ray Stalker



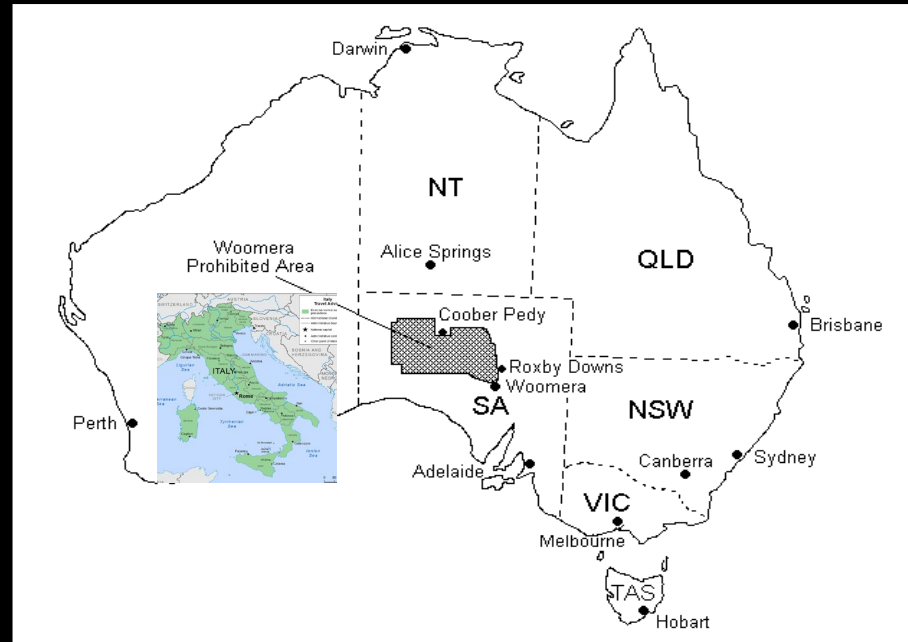
Dr Stalker examining a metal diaphragm blown out in a wind tunnel experiment. The diaphragm is mild steel, quarter of





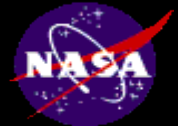
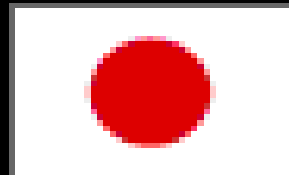
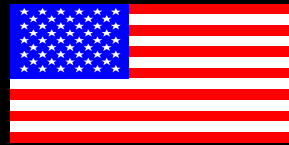
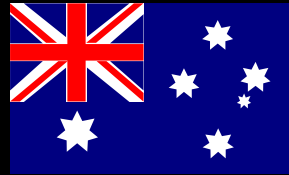


Woomera, Australia



HyShot

A University of Queensland Initiative

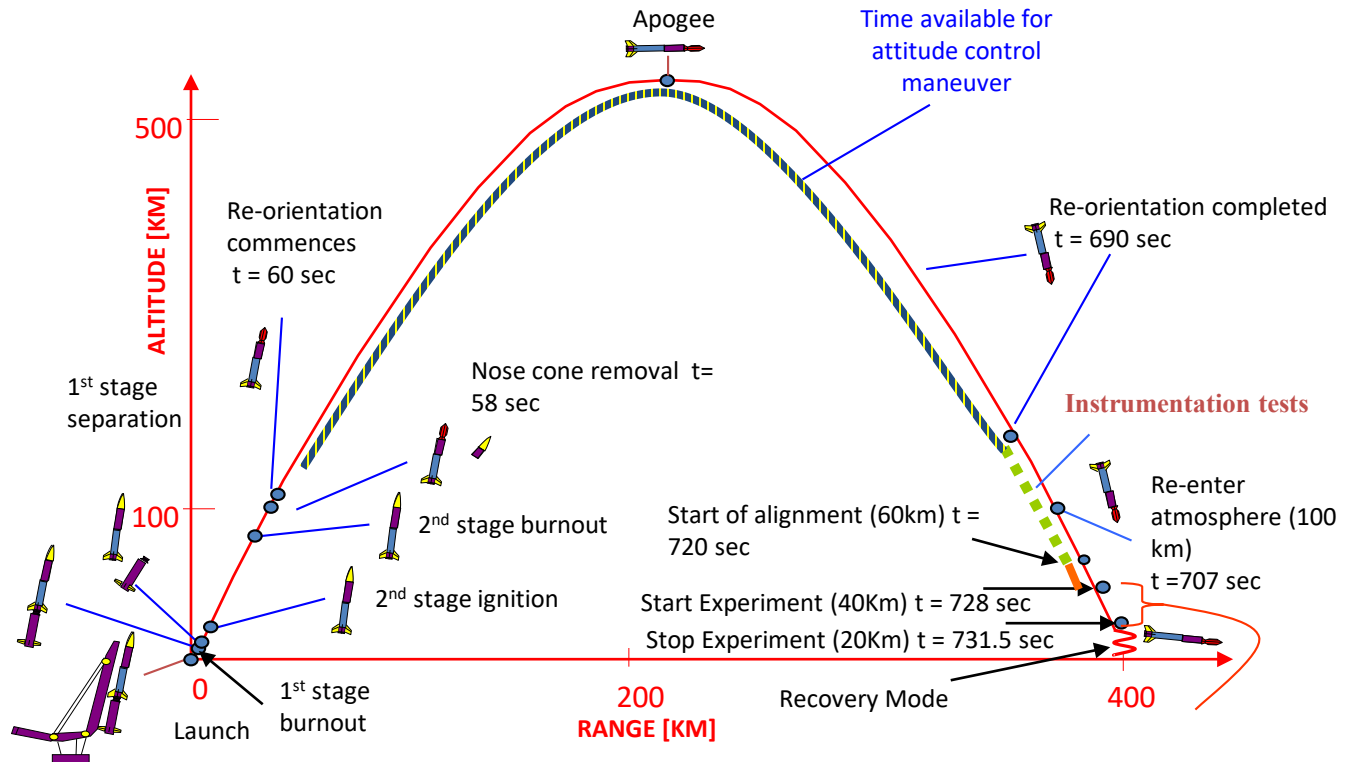


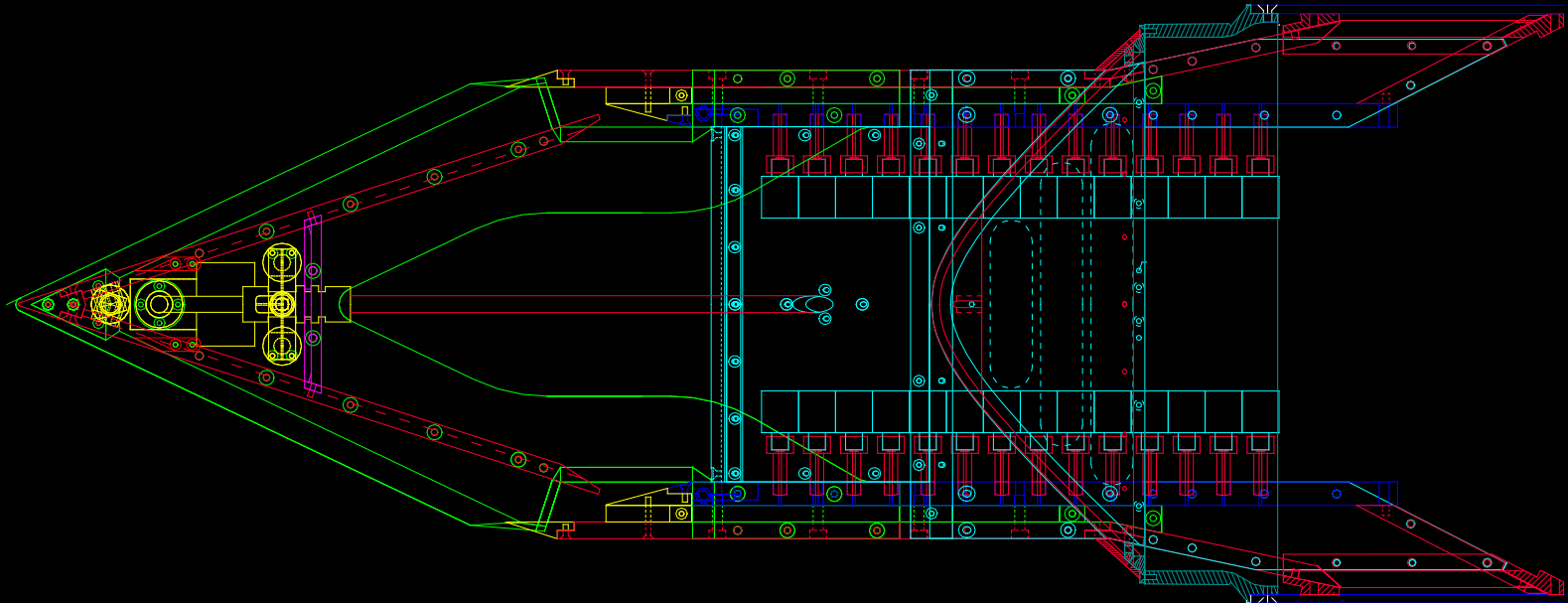
Air Force Office of Scientific Research (AFOSR)

The Basic Research Manager of the Air Force Research Laboratory



Typical Flight Description





HyShot 1,2 and 4 Supersonic Combustion Experiment

HyShot 1 Launch from Woomera,
Australia
2001



Searching for HyShot 1

2001

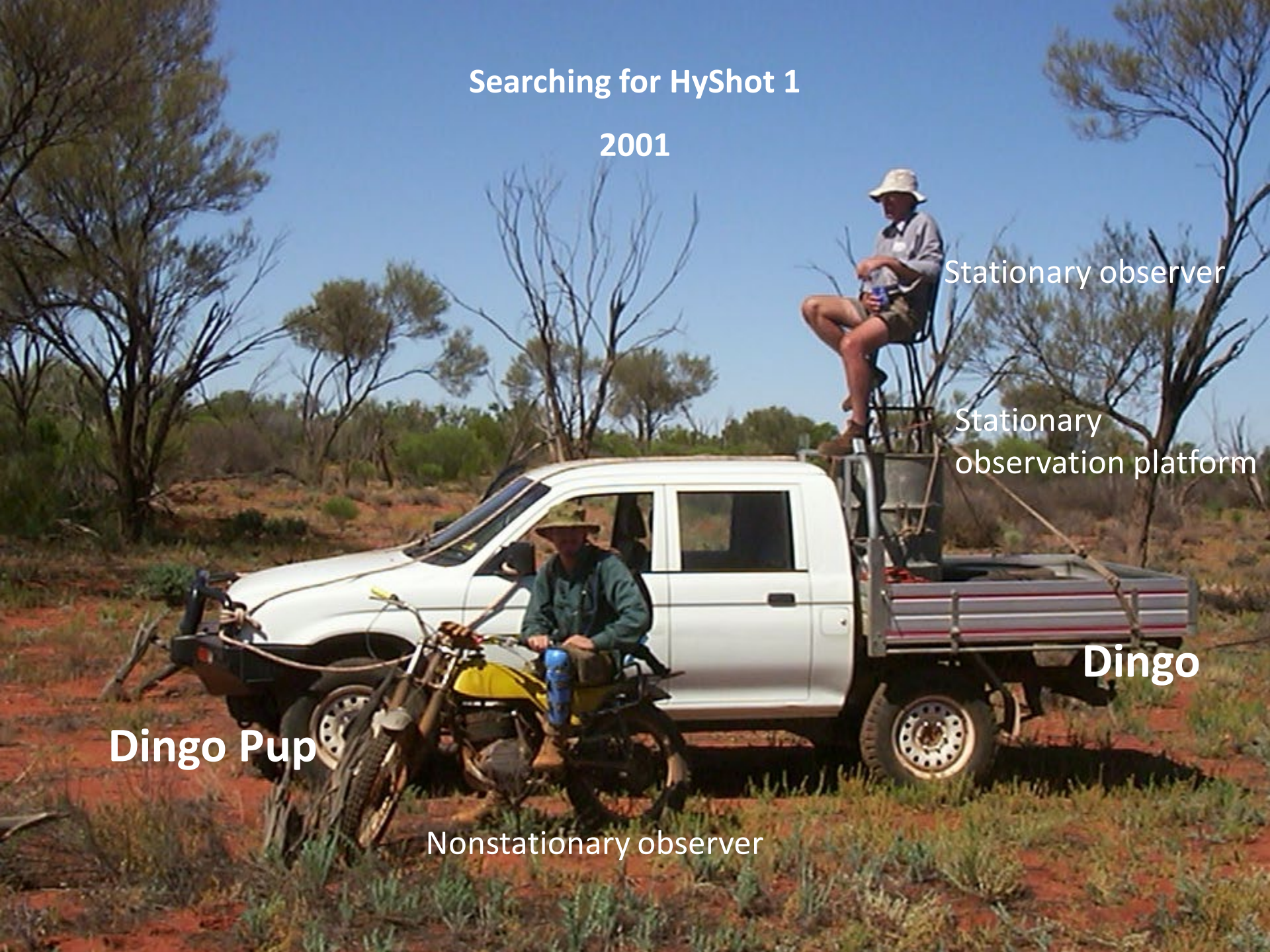
Stationary observer

Stationary
observation platform

Dingo

Dingo Pup

Nonstationary observer



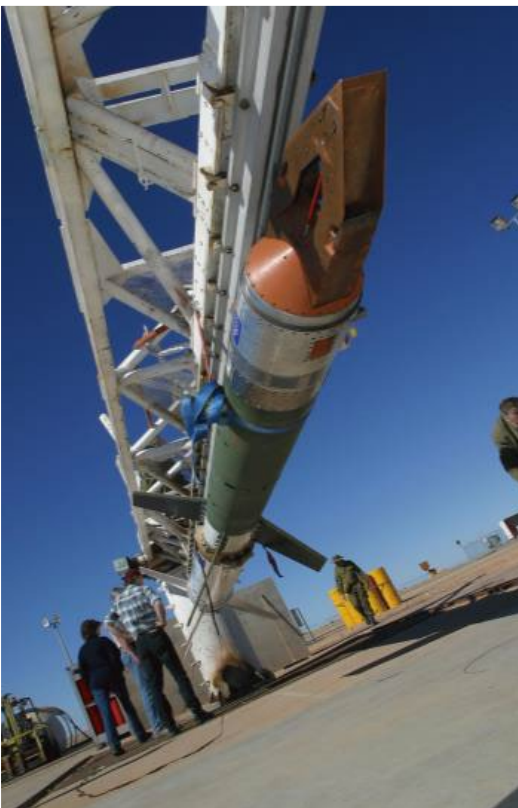
HyShort 1 found and fault fixed



HyShot II Launched from Woomera, Australia

30/6/02

12:05EST





**Launcher Donated by
JAXA to UQ**

HyShot 3 and 4
HS 3 QinetiQ Collaboration
HS 4 JAXA Collaboration



HyShot 3

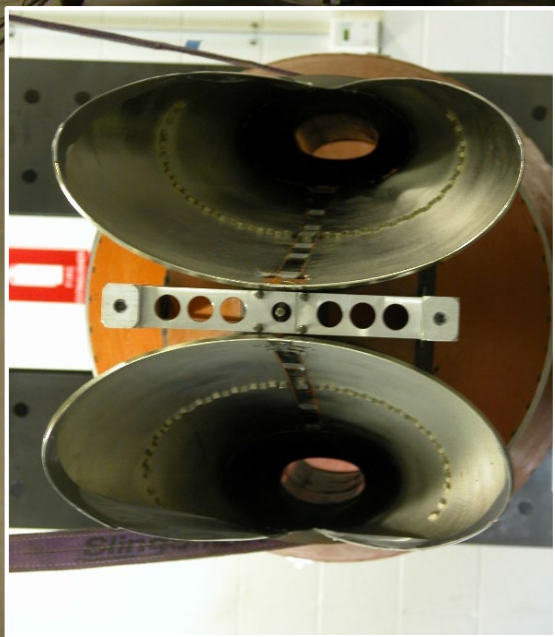
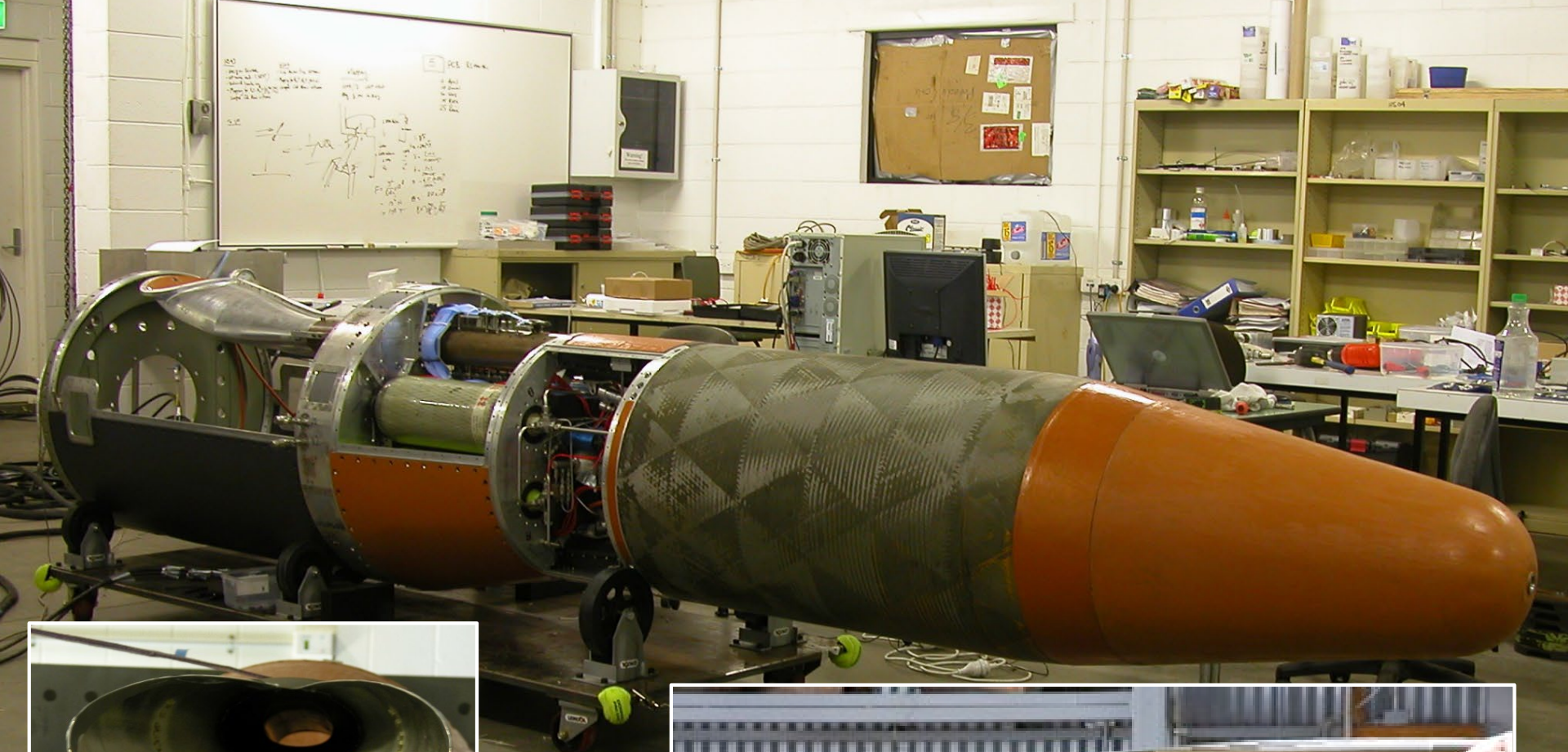


HyShot 4



HyCAUSE
DARPA/DSTO/UQ M10 Scramjet flight
2006







Hypersonic International Flight Research and Experimentation


Australian Government
Department of Defence
Defence Science and
Technology Organisation



 THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA




Queensland
Government



BAE SYSTEMS



HIFiRE 0



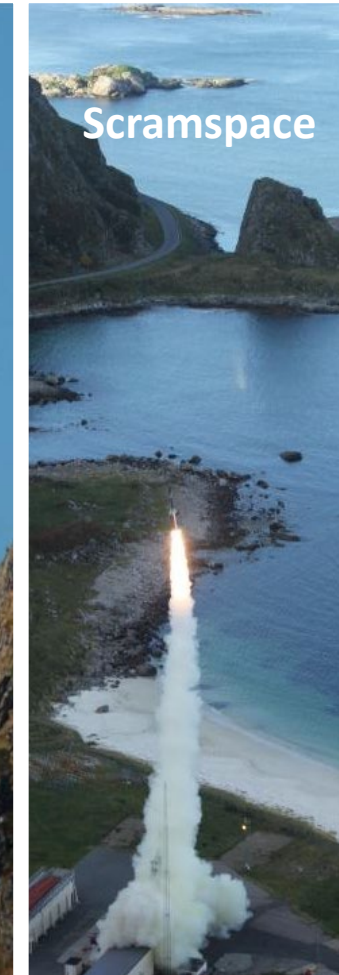
HIFiRE 1



HIFiRE 3



HIFiRE 5



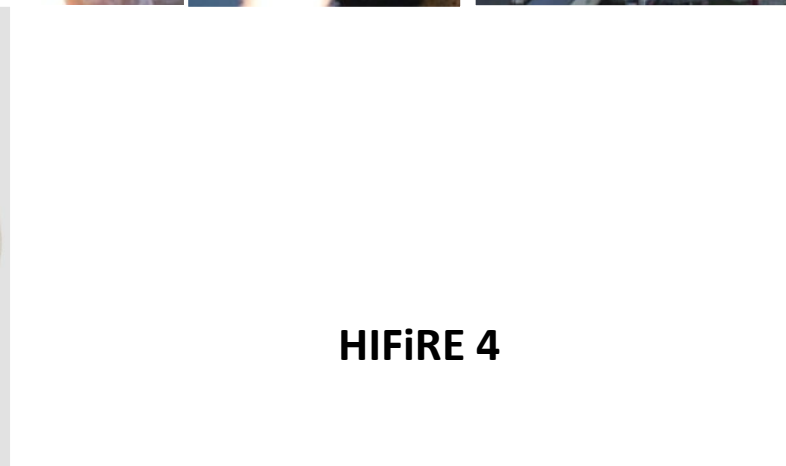
Scramspace



HIFiRE 7



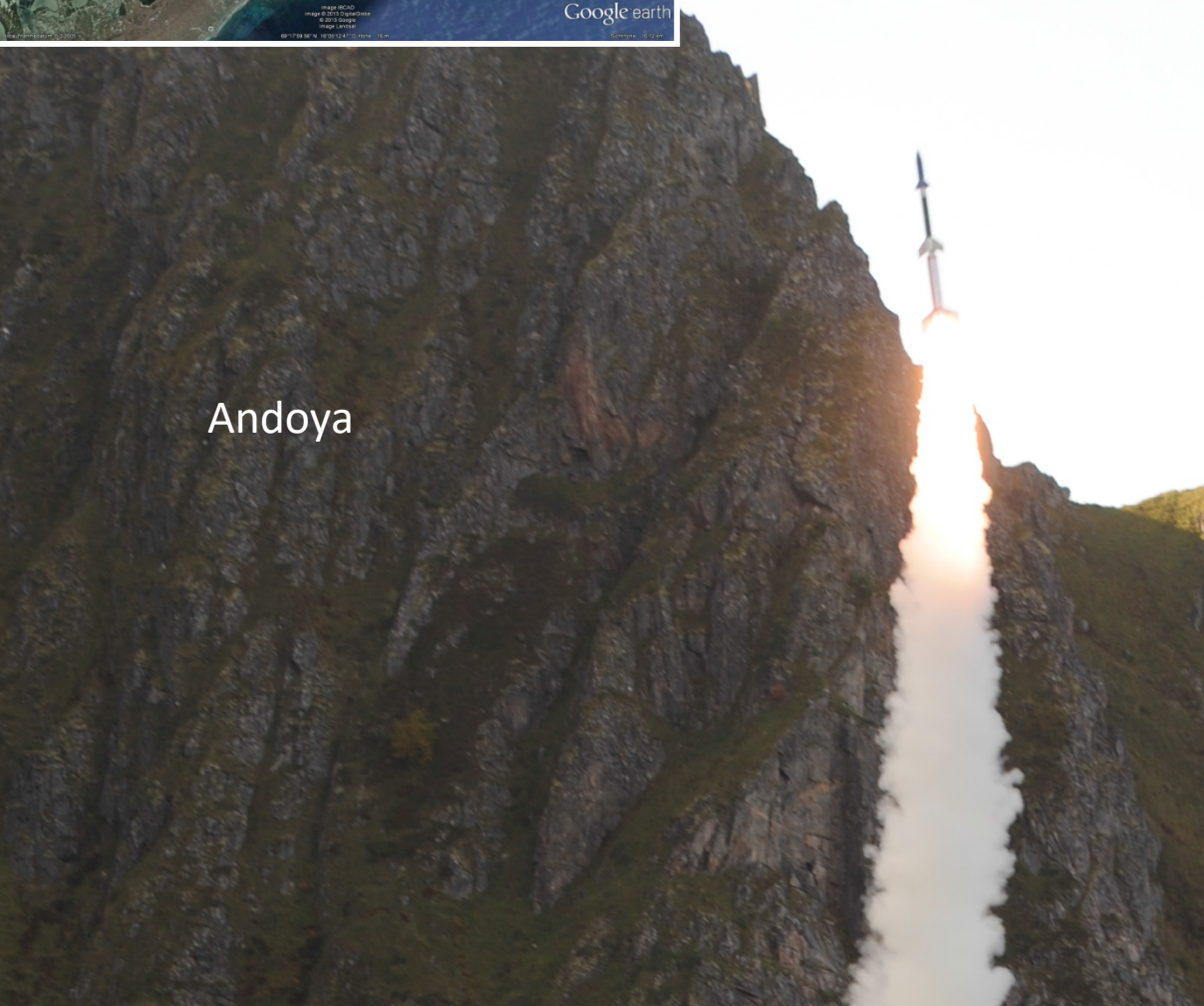
HIFiRE 5B



HIFiRE 4



**Technical Failures have occurred.
1 mission considered as total failure**



Summary

14 flights have been completed under the leadership of Australia in the HyShot, HyCAUSE, Scramspace and HIFiRE flight programs since 2000

