



Identification of the installation/facility :

Country: Germany
Location (city): Oberpfaffenhofen
Name of the facility: GULFSTREAM G 550 HALO
Date of construction or of acquisition or of main refurbishment:
Owner: DLR
Contact point: Guido.Plützer@dlr.de
Internet site: www.DLR.de

Technical characteristics:

1 - Type of infrastructure

Wind tunnel	<input type="checkbox"/>
Propulsion bench	<input type="checkbox"/>
Structures facility	<input type="checkbox"/>
Material facility	<input type="checkbox"/>
Simulator (ex. Flight simulator, tower, ...)	<input type="checkbox"/>
Flight test bed (aircraft, embedded facilities, ...)	<input checked="" type="checkbox"/>
Supercomputers	<input type="checkbox"/>
Other	<input type="checkbox"/>

2 - Main technical characteristics

Engines	2 x Rolls-Royce BR 710
Max. Take Off Weight	41,28 tonnes
Max. Operating Altitude	15.500 m (51.000 ft)
Cruise Speed	1054km/h
Range	up to 8.000 km

3 - Research domains which can be addressed (refer to ACARE taxonomy
<http://www.acare4europe.com/docs/ASD-Annex-final-211004-out-asd.pdf>)

4 - Main (or specific) associated measurement techniques

High Altitude and Long Range Aircraft
Equipped with provisions for atmospheric research
Hardpoints/Belly-pod/Air-Intakes/drop-sonde

5 - Operational status

- Fully operational
Worldwide campaigns possible
During build-up-phase primery used for German atmospheric Community
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6 - picture



Financial elements:

Replacement cost (M€uros)

- | | |
|---------------|-------------------------------------|
| Less than 10 | <input type="checkbox"/> |
| 10 to 30 | <input type="checkbox"/> |
| 30 to 60 | <input type="checkbox"/> |
| 60 to 100 | <input checked="" type="checkbox"/> |
| More than 100 | <input type="checkbox"/> |

Practices concerning:

Access policy (contract, voucher, free access for research, etc...)

Access via scientific user board: WLA (Wissenschaftlicher Lenkungsausschuss)

Access via contract

Support (regional, national, European, private, ...)

Comments:

Worldwide outstanding facility (flight altitude and maximum range) for environmental research in Europa (only one comparable aircraft based in USA (HIAPER)).

Origin of information ('signature'): author and date