

Table 4: Preliminary MIPAS Mid-Term Operational Scenario (updated October 7, 2005)

Time (2005)	Mode	Operational Scenario	Objective/Remarks
First two weeks of May	Nominal	2x3 continuous days 2x4 continuous days off	Monitor Climatology and Trends
mid May – 19 June (to be harmonised with planned Teresina ESABC campaign)	Nominal alternating with UTLS-1	8 orbits operations followed by 16 orbits switch-off	Monitor Onset and Evolution of Antarctic PSCs
21-23 June (to be harmonised with planned Teresina ESABC campaign)	Nominal	3 continuous days	Monitor Antarctic Winter
27 June – mid July (to be harmonised with planned Teresina ESABC campaign)	2*UTLS-1 1*Nominal	3x3 continuous days on 3x4 continuous days off	Monitor Indian Monsoon (+PSC evolution)
19 – 23 July	3*NLC 1*UA	4 continuous days	Detection of Noctilucent Clouds (NLCs) & Upper Atmosphere in coordination with comprehensive measurement campaign of ground-based instruments
26 – 29 July	Nominal with embedded AE	1 day of aircraft emissions (SEMs)	Detection of Aircraft Emissions in the North Atlantic Flight Corridor
First half of August	Nominal	2x3 continuous days 2x4 continuous days off	Monitor Climatology and Trends
Second half of August	UTLS-1	2x3 continuous days 2x4 continuous days off	UTLS dedicated research
First half of September	Nominal	2x3 continuous days 2x4 continuous days off	Monitor Climatology and Trends
15 – 18 September	MA UA	3 days 1 day	Equinox
20 – 30 September	UTLS-1	Selected orbits	UTLS-Research <i>ASA balloon campaign</i>
First half of October	UTLS-1	Selected orbits	UTLS-Research <i>ASA balloon campaign</i>
Second half of October (until 24 Oct., termination earlier on demand)	UTLS-1	Selected orbits	UTLS-Research <i>ASA balloon campaign</i>

4 Nov.	UTLS-1	1 day (followed by 2 days off)	UTLS dedicated research Onset of Arctic vortex <i>SCOUT campaign (transfer flight O'hofen - Larnaca – Dubai)</i>
7-8 Nov.	UTLS-1	2 days (followed by 2 days off)	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT campaign (transfer flight Dubai – Hyderabad - U Taphao)</i>
Nov. 11	UTLS-1	1 day on (followed by 2 days off)	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT campaign (transfer flight U Taphao-Darwin)</i>
14 Nov – 6 Dec. (SCOUT intensive campaign period)	UTLS-1	All orbits within longitudinal sector 100-150°E at 10°S (i.e. 4-6 orbits per day), followed by three day off	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT (intensive phase, numerous local flights from Darwin base)</i>
10 Dec.	UTLS-1	1 day on (followed by 2 days off)	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT campaign (transfer flight Darwin – Brunei - U Taphao)</i>
13-14 Dec.	UTLS-1	2 days on (followed by 1 day off)	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT campaign (transfer flight U Taphao – Hyderabad - Dubai)</i>
16 Dec.	UTLS-1	1 day on (followed by 5 days off)	UTLS dedicated research Evolution of Arctic vortex <i>SCOUT campaign (transfer flight U Taphao – Hyderabad - Dubai)</i>
22-24 Dec.	Nominal with embedded AE	1 day of aircraft emissions (SEMs)	Detection of Aircraft Emissions in the North Atlantic Flight Corridor
29-31 Dec.	MA UA	2 days 1 day	Winter solstice