

AEGEAN-GAME / ACEMED / ESA flight schedule:

Version 2 06/07/2011

This assumes outbound to SONATA (Pescara) 24/08/11 and SONATA flights 25/26/27 August. In the tables below, days are shown since the first day of SONATA. GOSAT orbit information (ESA flights) from the latest available schedule:

http://www.gosat.nies.go.jp/eng/technology/download/GOSAT_Path_Calendar_2011_en.pdf

Option 1

| Days | | |
|------|----------|--|
| 5 | 28/08/11 | Position from Pescara Italy to Chania |
| 6 | 29/08/11 | Non-flying day (aircrew) |
| 7 | 30/08/11 | AEGEAN-GAME flight. Take off in the morning. Climb to around 5000ft and fly a square with 22 mile sides, just to the north of Crete. Once complete, climb to around 8000ft and repeat (These heights may change on the day). Descend to low level and route towards Mitilini. Once west of Mitilini we would like to repeat the same size squares at the same levels before conducting straight runs at two levels heading back towards Crete (still generally below 10,000ft). We would then like to climb to 20,000ft just north of Crete, before recovering to Crete. Land approximately 5 hours after take off. |
| 8 | 31/08/11 | ESA flight. 1200 UTC take off. Climb to between 8-10000ft and route towards Lesvos, then Biga (Turkey) and possibly as far north as Burgas (Bulgara) before returning on a reverse route (see Figure 2). |
| 9 | 01/09/11 | AEGEAN-GAME flight. Repeat the profile above but with a midday take off. |
| 10 | 02/09/11 | ACEMED daytime flight. Route along satellite track on the western side of the Aegean, between 3500-30000ft (see Figure 1). Take-off ~ approx 0930UTC (1130 local) |
| 11 | 03/09/11 | ESA flight. A repeat of day 8 |
| 12 | 04/09/11 | Non-flying day (aircrew) |
| 13 | 05/09/11 | Non-flying day (aircrew) |
| 14 | 06/09/11 | Contingency day. ESA flight (repeat day 8) CIMS flight - Route between Crete and west of Mitilini at levels between 100ft and 10,000ft. Return at High level |

| | | |
|----|----------|---|
| | | (above 20,000ft) |
| 15 | 07/09/11 | Contingency day. Possible CIMS or AEGEAN-GAME flights. |
| 16 | 08/09/11 | Contingency day. Possible CIMS or AEGEAN-GAME flights. |
| 17 | 09/09/11 | Return to Cranfield |

Option 2

| Days | | |
|------|----------|--|
| 5 | 28/08/11 | Position from Pescara Italy to Chania |
| 6 | 29/08/11 | AEGEAN-GAME flight. Take off in the morning. Climb to around 5000ft and fly a square with 22 mile sides, just to the north of Crete. Once complete, climb to around 8000ft and repeat (These heights may change on the day). Descend to low level and route towards Mitilini. Once west of Mitilini we would like to repeat the same size squares at the same levels before conducting straight runs at two levels heading back towards Crete (still generally below 10,000ft). We would then like to climb to 20,000ft just north of Crete, before recovering to Crete. Land approximately 5 hours after take off. |
| 7 | 30/08/11 | Non-flying day (aircrew) |
| 8 | 31/08/11 | ESA flight. 1200 UTC take off. Climb to between 8-10000ft and route towards Lesvos, then Biga (Turkey) and possibly as far north as Burgas (Bulgara) before returning on a reverse route (see Figure 2). |
| 9 | 01/09/11 | AEGEAN-GAME flight. Repeat day 6 but with a midday take off, or Non-flying day (aircrew) |
| 10 | 02/09/11 | Non-flying day (aircrew) or ACEMED nighttime flight (as day 12) |
| 11 | 03/09/11 | Non-flying day (aircrew) |
| 12 | 04/09/11 | Non-flying day (aircrew) or ACEMED nighttime flight. Route along satellite track on the eastern side of the Aegean, between 3500-30000ft (see Figure 1). Take-off ~ approx 2200UTC (3 rd) (0000 local), or AEGEAN-GAME flight – as day 6. |
| 13 | 05/09/11 | Non-flying day (aircrew) |
| 14 | 06/09/11 | ESA flight. A repeat of day 6 |
| 15 | 07/09/11 | Contingency day. Possible CIMS or AEGEAN-GAME flights. |
| 16 | 08/09/11 | Contingency day. Possible CIMS or AEGEAN-GAME flights. |
| 17 | 09/09/11 | Return to Cranfield |

Option 3

| Days | | |
|------|----------|--|
| 5 | 28/08/11 | Position from Pescara Italy to Chania |
| 6 | 29/08/11 | AEGEAN-GAME flight. Take off in the morning. Climb to around 5000ft and fly a square with 22 mile sides, just to the north of Crete. Once complete, climb to around 8000ft and repeat (These heights may change on the day). Descend to low level and route towards Mitilini. Once west of Mitilini we would like to repeat the same size squares at the same levels before conducting straight runs at two levels heading back towards Crete (still generally below 10,000ft). We would then like to climb to 20,000ft just north of Crete, before recovering to Crete. Land approximately 5 hours after take off. |
| 7 | 30/08/11 | Non-flying day (aircrew) |
| 8 | 31/08/11 | Non-flying day (aircrew) or ESA flight – as day 11 |
| 9 | 01/09/11 | AEGEAN-GAME flight. Repeat day 6 but with a midday take off. |
| 10 | 02/09/11 | ACEMED daytime flight. Route along satellite track on the western side of the Aegean, between 3500-30000ft (see Figure 1). Take-off ~ approx 0930UTC (1130 local) |
| 11 | 03/09/11 | ESA flight. 1200 UTC take off. Climb to between 8-10000ft and route towards Lesvos, then Biga (Turkey) and possibly as far north as Burgas (Bulgara) before returning on a reverse route (see Figure 2). |
| 12 | 04/09/11 | Non-flying day (aircrew) or Contingency day. CIMS or AEGEAN-GAME flights. |
| 13 | 05/09/11 | Non-flying day (aircrew) or Contingency day. CIMS or AEGEAN-GAME flights. |
| 14 | 06/09/11 | ESA flight – repeat day 12. |
| 15 | 07/09/11 | Contingency day. CIMS or AEGEAN-GAME flights. |
| 16 | 08/09/11 | Contingency day. CIMS or AEGEAN-GAME flights. |
| 17 | 09/09/11 | Return to Cranfield |

Please note that times and dates may have to vary to fit in with prevailing weather conditions.

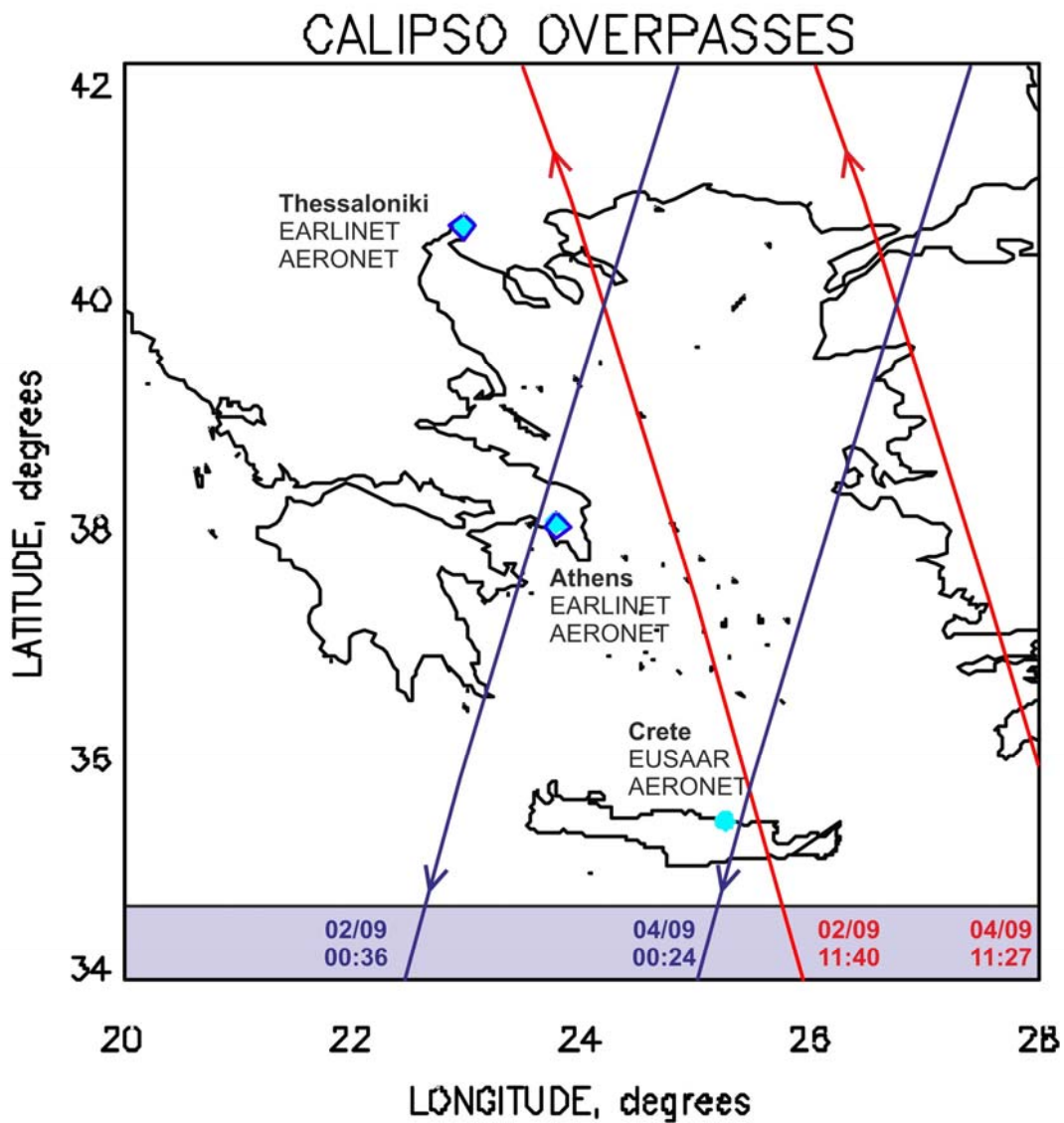


Figure 1. Tracks of the CALIPSO satellite on 2 and 4 September 2011, daytime (red) and nighttime (blue). Times are UTC.

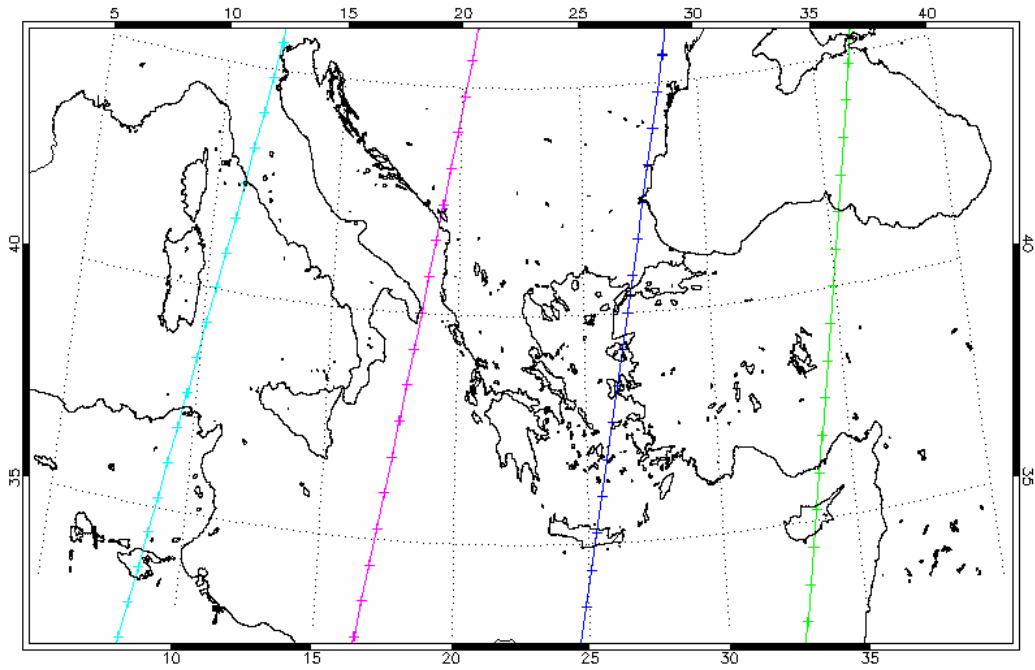


Figure 2. Tracks of the GOSAT satellite. The blue track over the Aegean and into N.Turkey and Bulgaria is repeated on 29 August and 2/5/8 Sept.