

The Aircraft Rotation Problem

Aircraft Rotation is a major problem faced by any existing airline company. The problem arises after schedule design and fleet assignment have been dealt with. The aim of the Aircraft Rotation Problem (ARP) is to feasibly combine successive flight legs into streams of flights that are capable of being operated by individual aircrafts.

Flight streams must satisfy a number of pre-defined operational constraints and should number, in principle, less than the number of available aircrafts. Rotations are typically generated for a week and are then extended for longer periods of time.

Objective Function

The main objective function goal is to minimize the number of aircraft necessary to operate the flight schedule. However, if the number of aircraft available is fixed in advance and is passed as an input data to the system, we aim at maximizing the number of flights the fleet could possibly fly.

Either way, as an additional optimization goal, our system attempts to maximize the number of possible journeys a passenger could carry out, in a single day, between any given pair of destinations, i.e. it aims at optimizing the number of possible connections.

Temporal and Geographic Constraints

Flights are allowed to be linked together if they do not violate certain operational constraints. Constraints are geographical and temporal in nature. For instance, the next flight leg in a rotation must have the same departure location as the arrival location for the previous flight leg. Additionally, the amount of time spent between consecutive flight legs must fall within a given time window, that allows for a minimal connection time or ground connection time.

Crew Pairing Constraints

Various constraints related to the Crew Pairing Problem do exist. However, some of them must already be enforced throughout the aircraft rotation process. These constraints are associated with the ground time allowed between consecutive flight legs to be performed by a same aircraft. Crew members are not allowed more than a given pre-defined number of consecutive landings, say 5 or 6, and crews must be changed before that limit is exceeded. Thus, enough ground time (say 40 minutes) must be allowed between at least two consecutive flight legs in a sequence of 5 or 6 consecutive flight legs.

Flight Number Constraint

Some flight legs are commonly labeled with a single flight number, which identifies an indivisible flight structure. This unique structure is created to guarantee that its flight legs will be operated by a same aircraft and, as such, passengers will be able to fly these legs without changing planes.

Special Flight Operations

These constraints are related to the requirement that some specific flights must be operated by some special aircraft and apply even for aircraft within a same fleet. For instance, some aircraft must be configured to make special landings and takeoffs, such as those carried out at Santos Dumont Airport (SDU), in the city of Rio de Janeiro. These aircraft must have special engines capable of delivering greater power during takeoff, and are suitable for airports having reduced runway lengths, as SDU. Thus, the number of aircraft to be assigned to flight legs departing from or/and taking off from these airports must be in accordance with this constraint. Cabin crew (specifically pilots and copilots) may also need special training to perform these assignments for working under these conditions. Thus a concentration of particular aircraft and cabin crew naturally follows from these requirements.

Aircraft Maintenance

Rotations are supposed to be assigned to non-specific aircraft. This way, if a maintenance planner must stop a given aircraft at a certain specific location, a dummy flight departing and arriving at that location must be created and added to the set of flight legs to be operated by the aircraft. Finally, this maintenance

rotation should then be assigned to the specifically desired aircraft, during daily operations.

DATA AND PARAMETERS

The Flight Schedule

You may send your flight schedule in two different formats: as flights patterns (SSIM File) or daily flights format. If you choose sending a SSIM File, you must specify the time period you want daily flights to be generated, and fleet to be processed.

Transit Time

There must be a sufficient time for ground operations between two flight legs. It may vary from one airport to another, so the minimal time for each airport involved must be sent to the problem. You will be able to admit a marginal adjust in flight departure, for instance, 5 minutes, in order to investigate solutions that can produce better results. In this case, this acceptance and how much time is admitted must be informed as parameters.

Crew Replacement Time

There also must be a sufficient time for crew changes after a certain number os landings in a row. This is required for crew arriving and departing procedures, and it may be estimated as a unique time for all airports, something about 40 minutes, after 5 landings, are usually estimated as sufficient time for those procedures.

Ferry Flights

You must indicate if you accept that system may suggest ferry flights between two near airports, in order to reduce the necessary number of required aircraft. If you do, you may establish limits of flight time for those positioning flights.

Flight Number Constraint

Some flight legs are commonly labeled with a single flight number, which identifies an indivisible flight structure. This unique flight numeration is created in

order to guarantee that all flight legs will be assigned to the same aircraft, and doing so, passengers will be able to fly all those legs without changing planes.

Passenger Connections

Relating to maximizing connections between pairs of airports, there must be informed to the system parameters that configure a trip as acceptable for passengers during a single day, as: maximum time flight, maximum number of aircraft changes, maximum time of waiting at an airport between two flight legs, during an aircraft change.

CASE STUDY (A SINGLE EXAMPLE)

Data and parameters for system submission must be sent by e-mail. Here goes an example:

---- Mail Example -----

From: Example Airlines TO: rpontesbr@yahoo.com.br Subject: Crew Scheduling

Attach: SSIM File

Responsible John Brown
Company Airlines Example E-mail example@example.com.br

DAILY FLIGHTS GENERATION (When sending SSIM Files)

SCHEDULE BEGINNING [2007 June, 1st] SCHEDULE ENDING [2007 June, 1st] [B73G] [B73S] [B733] FLEET

NUMBER OF AIRCRAFT [Minimize]

TRANSIT TIME

[20] minutes Default SDU, CGH, BSB [25] minutes FLN, PLU [15] minutes

CHANGING CREW TIME DEFAULT [30] minutes

FERRY FLIGHTS ACCEPTANCE [N]

BRAKING FLIGHT STRUCTURE ACCEPTANCE [N] CHANGING FLIGHT TIME DEPARTURE ACCEPTANCE [N]

PASSENGER TRIP PARAMETERS

MAX FLIGHT TIME [720 min] MAX AIRCRAFT CHANGES: [1] MAX TIME WAITING CONNECTIONS: [240 min]

[BSB] 2007/06/01 14:00 TO 2007/06/01 20:00

GENERATED DAILY FLIGHTS

| 1 | SEQ | FLIGHT | T.E.G | FROM | TO | DEPARTURE | ARRIVA | т. | |
|--|-----|---------|-------|------|-----|------------|--------|------------|-------|
| 2 | | | | | | | | | 06.13 |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 2109 1 VIX PLU 2007/06/01 06:25 2007/06/01 07:20 8 2315 1 FOR BSB 2007/06/01 06:30 2007/06/01 07:20 8 2315 1 FOR BSB 2007/06/01 06:40 2007/06/01 08:56 9 2217 1 REC BSB 2007/06/01 06:40 2007/06/01 07:42 11 2327 1 BSB CGH 2007/06/01 06:51 2007/06/01 07:42 11 2327 1 BSB CGH 2007/06/01 06:56 2007/06/01 08:30 12 2002 1 CGH PLU 2007/06/01 06:56 2007/06/01 08:30 12 2003 1 PLU SDU 2007/06/01 07:00 2007/06/01 08:00 14 2333 1 GIG CWB 2007/06/01 07:00 2007/06/01 08:20 15 2334 1 POA CWB 2007/06/01 07:20 2007/06/01 08:20 16 2100 1 FLN CGH 2007/06/01 07:20 2007/06/01 08:20 16 2100 1 FLN CGH 2007/06/01 07:30 2007/06/01 08:27 17 2109 2 PLU CGH 2007/06/01 07:30 2007/06/01 08:40 19 2286 2 SDU BSB 2007/06/01 07:30 2007/06/01 08:56 20 2251 1 BSB CYN 2007/06/01 07:30 2007/06/01 08:56 20 2251 1 BSB CYN 2007/06/01 07:40 2007/06/01 08:56 20 2251 1 BSB CYN 2007/06/01 07:40 2007/06/01 08:25 22 2 2112 1 NVT CGH 2007/06/01 07:40 2007/06/01 08:30 22 22 2 112 1 NVT CGH 2007/06/01 07:40 2007/06/01 08:30 22 2 2 112 1 SDU CGH 2007/06/01 07:40 2007/06/01 08:30 22 2 2 112 1 SDU CGH 2007/06/01 07:40 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 07:40 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 07:40 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 08:30 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 08:30 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 08:30 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 08:30 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 08:30 2007/06/01 08:40 2007/06/01 09:40 2007/06/01 09:40 2007/06/01 10:00 2007/06/01 10:00 2007/06/01 10:00 2007 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 2315 1 FOR BSB 2007/06/01 06:40 2007/06/01 09:13 10 2120 1 CGH SDU 2007/06/01 06:40 2007/06/01 07:42 11 2327 1 BSB CGH 2007/06/01 06:56 2007/06/01 07:42 11 2327 1 BSB CGH 2007/06/01 06:56 2007/06/01 08:20 12 2202 1 CGH PLU 2007/06/01 07:00 2007/06/01 08:20 13 2203 1 PLU SDU 2007/06/01 07:00 2007/06/01 08:00 14 2333 1 GIG CWB 2007/06/01 07:00 2007/06/01 08:20 15 2334 1 POA CWB 2007/06/01 07:20 2007/06/01 08:20 16 2100 1 FLN CGH 2007/06/01 07:20 2007/06/01 08:20 17 2109 2 PLU CGH 2007/06/01 07:20 2007/06/01 08:20 18 2197 2 REC SSA 2007/06/01 07:30 2007/06/01 08:40 19 2286 2 SDU BSB 2007/06/01 07:30 2007/06/01 08:40 19 2286 2 SDU BSB 2007/06/01 07:31 2007/06/01 08:56 20 2251 1 BSB GYN 2007/06/01 07:40 2007/06/01 08:25 22 2112 1 NVT CGH 2007/06/01 07:40 2007/06/01 08:25 23 2220 2 CWB CGH 2007/06/01 07:40 2007/06/01 08:40 24 2134 1 CGH SDU 2007/06/01 07:40 2007/06/01 08:47 25 2121 1 SDU CGH 2007/06/01 07:40 2007/06/01 08:47 25 2121 1 SDU CGH 2007/06/01 07:40 2007/06/01 08:47 26 2192 1 SDU PLU 2007/06/01 07:40 2007/06/01 08:47 25 2121 1 SDU CGH 2007/06/01 07:40 2007/06/01 08:47 26 2192 1 SDU PLU 2007/06/01 08:30 2007/06/01 08:47 26 2192 1 SDU PLU 2007/06/01 08:30 2007/06/01 08:47 27 2251 2 GYN CGH 2007/06/01 08:30 2007/06/01 08:47 28 2202 2 PLU SSA 2007/06/01 08:30 2007/06/01 09:29 27 2251 2 GYN CGH 2007/06/01 08:30 2007/06/01 09:40 30 2333 2 CWB POA 2007/06/01 08:40 2007/06/01 09:59 28 2202 2 PLU SSA 2007/06/01 08:40 2007/06/01 09:40 31 2334 2 CWB GIG 2007/06/01 08:40 2007/06/01 09:40 32 2135 1 SDU CGH 2007/06/01 09:00 2007/06/01 10:00 33 2135 1 SDU CGH 2007/06/01 09:00 2007/06/01 10:00 34 2327 2 CGH FIN 2007/06/01 09:00 2007/06/01 10:00 35 2112 2 CGH SBB 2007/06/01 09:00 2007/06/01 10:00 36 2112 2 CGH SBB 2007/06/01 09:00 2007/06/01 11:00 44 2336 1 POA CWB 2007/06/01 09:40 2007/06/01 11:00 45 2256 1 CGH NVT 2007/06/01 10:00 2007/06/01 11:00 46 2256 1 CGH NVT 2007/06/01 10:00 2007/06/01 11:20 47 2123 1 SDU CGH 2007/06/01 10:30 2007/06/01 11:20 48 2136 1 CGH SDU 2007/06/01 10:30 2007/06/01 11:20 50 2202 3 SSA REC 2 | | | | | | | | | |
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| 43 2224 4 SDU VIX 2007/06/01 10:00 2007/06/01 11:00 44 2336 1 POA CWB 2007/06/01 10:00 2007/06/01 11:00 45 2327 3 FLN POA 2007/06/01 10:10 2007/06/01 11:00 46 2256 1 CGH NVT 2007/06/01 10:24 2007/06/01 11:20 47 2123 1 SDU CGH 2007/06/01 10:28 2007/06/01 11:28 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:40 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 44 2336 1 POA CWB 2007/06/01 10:00 2007/06/01 11:00 45 2327 3 FLN POA 2007/06/01 10:10 2007/06/01 11:00 46 2256 1 CGH NVT 2007/06/01 10:24 2007/06/01 11:20 47 2123 1 SDU CGH 2007/06/01 10:28 2007/06/01 11:28 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:40 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 45 2327 3 FLN POA 2007/06/01 10:10 2007/06/01 11:00 46 2256 1 CGH NVT 2007/06/01 10:24 2007/06/01 11:20 47 2123 1 SDU CGH 2007/06/01 10:28 2007/06/01 11:28 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:18 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 46 2256 1 CGH NVT 2007/06/01 10:24 2007/06/01 11:20 47 2123 1 SDU CGH 2007/06/01 10:28 2007/06/01 11:28 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:18 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 47 2123 1 SDU CGH 2007/06/01 10:28 2007/06/01 11:28 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:18 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 48 2136 1 CGH SDU 2007/06/01 10:29 2007/06/01 11:29 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:18 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 49 2242 1 CWB CGH 2007/06/01 10:30 2007/06/01 11:18 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 50 2202 3 SSA REC 2007/06/01 10:30 2007/06/01 11:40 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| 51 2334 3 GIG BSB 2007/06/01 10:30 2007/06/01 12:00 | | | | | | | | | |
| | | | | | | | | | |
| 52 ZIUU 3 GIG SSA ZUU//U6/UI IU:3U ZUU//U6/UI IZ:29 | | | | | | | | | |
| | SZ | Z I U U | 3 | GIG | SSA | 2001/06/UI | 10:30 | 200//U6/UI | 12:29 |

| 53 | 2207 | 1 | PLU | CGH | 2007/06/01 | 10.35 | 2007/06/01 | 11.46 |
|-----|------|---|-----|-----|------------|----------------|------------|----------------|
| | | | | | | | | |
| 54 | 2189 | 1 | BSB | PLU | 2007/06/01 | 10:57 | 2007/06/01 | 12:08 |
| 55 | 2261 | 2 | SDU | CGH | 2007/06/01 | 11:30 | 2007/06/01 | 12.29 |
| | | | | | | | | |
| 56 | 2194 | 1 | VIX | SDU | 2007/06/01 | 11:20 | 2007/06/01 | 12:20 |
| 57 | 2336 | 2 | CWB | BSB | 2007/06/01 | 11.20 | 2007/06/01 | 13.09 |
| | | | | | | | | |
| 58 | 2102 | 1 | POA | FLN | 2007/06/01 | 11:30 | 2007/06/01 | 12:20 |
| 59 | 2197 | 4 | GIG | CGH | 2007/06/01 | 11.30 | 2007/06/01 | 12.26 |
| | | | | | | | | |
| 60 | 2236 | 1 | CGH | CGR | 2007/06/01 | 11:45 | 2007/06/01 | 13:14 |
| 61 | 2242 | 2 | CGH | BSB | 2007/06/01 | 11.50 | 2007/06/01 | 13.20 |
| | | | | | | | | |
| 62 | 2202 | 4 | REC | FOR | 2007/06/01 | 12:00 | 2007/06/01 | 13:10 |
| 63 | 2124 | 1 | CGH | SDU | 2007/06/01 | 12.01 | 2007/06/01 | 13.01 |
| | | | | | | | | |
| 64 | 2208 | 1 | CGH | PLU | 2007/06/01 | 12:05 | 2007/06/01 | 13:09 |
| 65 | 2291 | 1 | BSB | CGH | 2007/06/01 | 12.20 | 2007/06/01 | 14.00 |
| | | | | | | | | |
| 66 | 2189 | 2 | PLU | VIX | 2007/06/01 | 12:28 | 2007/06/01 | 13:18 |
| 67 | 2334 | 4 | BSB | FOR | 2007/06/01 | 12:30 | 2007/06/01 | 15:00 |
| | | | | | | | | |
| 68 | 2102 | 2 | FLN | CGH | 2007/06/01 | 12:40 | 2007/06/01 | 13:32 |
| 69 | 2194 | 2 | SDU | BSB | 2007/06/01 | 12:40 | 2007/06/01 | 14:10 |
| | | | | | | | | |
| 70 | 2180 | 1 | CGH | POA | 2007/06/01 | | 2007/06/01 | |
| 71 | 2261 | 3 | CGH | CWB | 2007/06/01 | 12:59 | 2007/06/01 | 13:40 |
| | | | | | 2007/06/01 | | | |
| 72 | 2125 | 1 | SDU | CGH | | | 2007/06/01 | |
| 73 | 2223 | 1 | PLU | CGH | 2007/06/01 | 13:26 | 2007/06/01 | 14:31 |
| 74 | 2191 | 1 | | | 2007/06/01 | 13:40 | 2007/06/01 | |
| | | | VIX | SDU | | | | |
| 75 | 2242 | 3 | BSB | SSA | 2007/06/01 | 13:50 | 2007/06/01 | 15:50 |
| 76 | 2261 | 4 | | | 2007/06/01 | | 2007/06/01 | |
| | | | CWB | MGF | | | | |
| 77 | 9999 | 1 | BSB | BSB | 2007/06/01 | 14:00 | 2007/06/01 | 20:00 |
| 78 | 2102 | 3 | CGH | GIG | 2007/06/01 | 11.02 | 2007/06/01 | 15.00 |
| | | | | | | | | |
| 79 | 2139 | 1 | SDU | CGH | 2007/06/01 | 14:26 | 2007/06/01 | 15 : 20 |
| 80 | 2291 | 2 | CGH | CWB | 2007/06/01 | 14.30 | 2007/06/01 | 15.20 |
| | | | | | | | | |
| 81 | 2126 | 1 | CGH | SDU | 2007/06/01 | 14:50 | 2007/06/01 | 15:40 |
| 82 | 2193 | 1 | BSB | SDU | 2007/06/01 | 14.50 | 2007/06/01 | 16.20 |
| | | | | | | | | |
| 83 | 2210 | 1 | CGH | PLU | 2007/06/01 | 14:52 | 2007/06/01 | 15:57 |
| 84 | 2190 | 1 | SDU | VIX | 2007/06/01 | 15.00 | 2007/06/01 | 15.50 |
| | | | | | | | | |
| 85 | 2257 | 1 | NVT | CGH | 2007/06/01 | 15:05 | 2007/06/01 | 16:06 |
| 86 | 2262 | 1 | MGF | CWB | 2007/06/01 | 15.10 | 2007/06/01 | 16.00 |
| | | | | | | | | |
| 87 | 2102 | 4 | GIG | SSA | 2007/06/01 | 15:30 | 2007/06/01 | 17:25 |
| 88 | 2335 | 1 | FOR | BSB | 2007/06/01 | 15:30 | 2007/06/01 | 18:10 |
| | | | | | | | | |
| 89 | 2291 | 3 | CWB | POA | 2007/06/01 | | 2007/06/01 | |
| 90 | 2211 | 1 | FOR | REC | 2007/06/01 | 15:50 | 2007/06/01 | 17:00 |
| 91 | 2140 | 1 | | | 2007/06/01 | | 2007/06/01 | |
| | | | CGH | SDU | | | | |
| 92 | 2337 | 1 | BSB | CWB | 2007/06/01 | 15 : 54 | 2007/06/01 | 17:40 |
| 93 | 2127 | 1 | SDU | CGH | 2007/06/01 | 15.55 | 2007/06/01 | 16.45 |
| | | | | | | | | |
| 94 | 2285 | 1 | SSA | GIG | 2007/06/01 | 16:00 | 2007/06/01 | 17:59 |
| 95 | 2119 | 1 | VIX | PLU | 2007/06/01 | 16.10 | 2007/06/01 | 17.00 |
| | | | | | | | | |
| 96 | 2302 | 1 | PLU | BSB | 2007/06/01 | | 2007/06/01 | |
| 97 | 2262 | 2 | CWB | CGH | 2007/06/01 | 16:20 | 2007/06/01 | 17:11 |
| | | | | | | | | |
| 98 | 2243 | 1 | SSA | BSB | 2007/06/01 | | 2007/06/01 | |
| 99 | 2237 | 1 | CGR | CGH | 2007/06/01 | 16:30 | 2007/06/01 | 18:03 |
| 100 | 2260 | | | | 2007/06/01 | | 2007/06/01 | |
| | | 1 | CGH | SDU | | | | |
| 101 | 2330 | 1 | CGH | GIG | 2007/06/01 | 16:32 | 2007/06/01 | 17:35 |
| 102 | 2193 | 2 | SDU | VIX | 2007/06/01 | | 2007/06/01 | |
| | | | | | | | | |
| 103 | 2103 | 1 | CGH | FLN | 2007/06/01 | 17:10 | 2007/06/01 | 18:05 |
| 104 | 2290 | 1 | POA | CWB | 2007/06/01 | 17.10 | 2007/06/01 | 18.10 |
| | | | | | | | | |
| 105 | 2119 | 2 | PLU | CGH | 2007/06/01 | 17:15 | 2007/06/01 | 18:15 |
| 106 | 2141 | 1 | SDU | CGH | 2007/06/01 | 17:19 | 2007/06/01 | 18:09 |
| | | | | | | | | |
| 107 | 2128 | 1 | CGH | SDU | 2007/06/01 | | 2007/06/01 | |
| 108 | 2211 | 2 | REC | SSA | 2007/06/01 | 17:30 | 2007/06/01 | 18:40 |
| | | | | | | | | |
| 109 | 2260 | 2 | SDU | BSB | 2007/06/01 | | 2007/06/01 | TA:08 |
| 110 | 2105 | 1 | SSA | GIG | 2007/06/01 | 17:50 | 2007/06/01 | 19:39 |
| | | | | | | | | |
| 111 | 2235 | 1 | VIX | SDU | 2007/06/01 | | 2007/06/01 | |
| 112 | 2337 | 2 | CWB | POA | 2007/06/01 | 18:00 | 2007/06/01 | 19:00 |
| 113 | 2330 | 2 | GIG | SSA | 2007/06/01 | | 2007/06/01 | |
| | | | | | | | | |
| 114 | 2303 | 1 | BSB | PLU | 2007/06/01 | 18:10 | 2007/06/01 | 19:19 |
| 115 | 2103 | 2 | FLN | POA | 2007/06/01 | 18:20 | 2007/06/01 | 19:10 |
| | | _ | | | ,, | | ,, | , |

| 116 | 2290 | 2 | CWB | CGH | 2007/06/01 | 18:30 | 2007/06/01 | 19:19 |
|-----|------|---|-----|-----|------------|-------|------------|-------|
| 117 | 2285 | 2 | GIG | CGH | 2007/06/01 | 18:30 | 2007/06/01 | 19:27 |
| 118 | 2243 | 2 | BSB | CGH | 2007/06/01 | 18:38 | 2007/06/01 | 20:10 |
| 119 | 2335 | 2 | BSB | GIG | 2007/06/01 | 18:40 | 2007/06/01 | 20:10 |
| 120 | 2142 | 1 | CGH | SDU | 2007/06/01 | 18:43 | 2007/06/01 | 19:42 |
| 121 | 2129 | 1 | SDU | CGH | 2007/06/01 | 18:45 | 2007/06/01 | 19:44 |
| 122 | 2252 | 1 | CGH | GYN | 2007/06/01 | 18:47 | 2007/06/01 | 20:20 |
| 123 | 2314 | 1 | CGH | BSB | 2007/06/01 | 18:49 | 2007/06/01 | 20:19 |
| 124 | 2211 | 3 | SSA | PLU | 2007/06/01 | 19:00 | 2007/06/01 | 20:31 |
| 125 | 2104 | 1 | POA | FLN | 2007/06/01 | 19:20 | 2007/06/01 | 20:10 |
| 126 | 2235 | 2 | SDU | CPQ | 2007/06/01 | 19:20 | 2007/06/01 | 20:20 |
| 127 | 2332 | 1 | POA | CWB | 2007/06/01 | 19:30 | 2007/06/01 | 20:30 |
| 128 | 2233 | 1 | PLU | SDU | 2007/06/01 | 19:36 | 2007/06/01 | 20:29 |
| 129 | 2287 | 1 | BSB | SDU | 2007/06/01 | 19:41 | 2007/06/01 | 21:10 |
| 130 | 2143 | 1 | SDU | CGH | 2007/06/01 | 20:00 | 2007/06/01 | 20:48 |
| 131 | 2230 | 1 | CGH | PLU | 2007/06/01 | 20:00 | 2007/06/01 | 21:00 |
| 132 | 2326 | 1 | CGH | BSB | 2007/06/01 | 20:06 | 2007/06/01 | 21:41 |
| 133 | 2105 | 2 | GIG | CGH | 2007/06/01 | 20:10 | 2007/06/01 | 21:15 |
| 134 | 2330 | 3 | SSA | REC | 2007/06/01 | 20:10 | 2007/06/01 | 21:25 |
| 135 | 2130 | 1 | CGH | SDU | 2007/06/01 | 20:13 | 2007/06/01 | |
| 136 | 2104 | 2 | FLN | CGH | 2007/06/01 | 20:30 | 2007/06/01 | 21:29 |
| 137 | 2252 | 2 | GYN | BSB | 2007/06/01 | 20:40 | 2007/06/01 | 21:10 |
| 138 | 2235 | 3 | CPQ | CWB | 2007/06/01 | 20:40 | 2007/06/01 | 21:25 |
| 139 | 2335 | 3 | GIG | CWB | 2007/06/01 | 20:40 | 2007/06/01 | 22:00 |
| 140 | 2232 | 1 | SDU | PLU | 2007/06/01 | 20:45 | 2007/06/01 | 21:40 |
| 141 | 2211 | 4 | PLU | CGH | 2007/06/01 | 20:46 | 2007/06/01 | 22:02 |
| 142 | 2243 | 3 | CGH | CWB | 2007/06/01 | 20:47 | 2007/06/01 | 21:30 |
| 143 | 2314 | 2 | BSB | FOR | 2007/06/01 | 20:49 | 2007/06/01 | 23:21 |
| 144 | 2332 | 2 | CWB | GIG | 2007/06/01 | 20:50 | 2007/06/01 | 22:10 |
| 145 | 2216 | 1 | BSB | REC | 2007/06/01 | 20:53 | 2007/06/01 | 23:30 |
| 146 | 2144 | 1 | CGH | SDU | 2007/06/01 | 21:14 | 2007/06/01 | 22:04 |
| 147 | 2131 | 1 | SDU | CGH | 2007/06/01 | 21:16 | 2007/06/01 | 22:09 |
| 148 | 2230 | 2 | PLU | VIX | 2007/06/01 | 21:22 | 2007/06/01 | 22:10 |
| 149 | 2287 | 2 | SDU | CPQ | 2007/06/01 | 21:32 | 2007/06/01 | |
| 150 | 2330 | 4 | REC | FOR | 2007/06/01 | 21:45 | 2007/06/01 | 23:00 |
| 151 | 2105 | 3 | CGH | FLN | 2007/06/01 | 21:46 | 2007/06/01 | 22:39 |
| 152 | 2235 | 4 | CWB | MGF | 2007/06/01 | 21:50 | 2007/06/01 | |
| 153 | 2243 | 4 | CWB | POA | 2007/06/01 | 21:50 | 2007/06/01 | 22:50 |
| 154 | 2335 | 4 | CWB | POA | 2007/06/01 | 22:20 | 2007/06/01 | |
| 155 | 2200 | 1 | CGH | CGR | 2007/06/01 | | 2007/06/01 | |
| | | _ | | | ,, | | | |

(Obs: Flight 77 $\,$ is a dummy flight representing a maitenance at BSB).

AIRCRAFT ROTATION SOLUTION 1

No ferry flights, no flight breaking struture, no deaprt time changes (21 aircraft)

| - AII | RCRAFT 0 | 1 — | | | | | |
|-------|----------|-----|-----|-----|-------|-------|--|
| 01 | 2201 | 1 | CGR | CGH | 05:00 | 06:13 | |
| 02 | 2120 | 1 | CGH | SDU | 06:51 | 07:42 | |
| 03 | 2192 | 1 | SDU | PLU | 08:30 | 09:29 | |
| 04 | 2198 | 1 | PLU | BSB | 09:44 | 11:08 | |
| 05 | 2291 | 1 | BSB | CGH | 12:20 | 14:00 | |
| 06 | 2291 | 2 | CGH | CWB | 14:30 | 15:20 | |
| 07 | 2291 | 3 | CWB | POA | 15:40 | 16:40 | |
| 08 | 2290 | 1 | POA | CWB | 17:10 | 18:10 | |
| 09 | 2290 | 2 | CWB | CGH | 18:30 | 19:19 | |
| 10 | 2230 | 1 | CGH | PLU | 20:00 | 21:00 | |
| 11 | 2230 | 2 | PLU | VIX | 21:22 | 22:10 | |
| - AII | RCRAFT 0 | 2 — | | | | | |
| 0.1 | 2220 | 1 | POA | CWB | 06:20 | 07:20 | |

| | 2220 2122 2190 2119 2119 2314 2314 CRAFT (| | CWB CGH SDU VIX PLU CGH BSB | CGH SDU VIX PLU CGH BSB FOR | 07:40 09:21 15:00 16:10 17:15 18:49 20:49 | 10:11 15:50 17:00 18:15 20:19 23:21 |
|--|--|--|--|--|--|--|
| 01 02 03 04 05 06 07 08 | 2202 2202 2202 2202 2335 2335 2335 2335 | 1 2 3 4 1 2 3 4 | CGH PLU SSA REC FOR BSB GIG CWB | PLU SSA REC FOR BSB GIG CWB POA | 06:58 08:35 10:30 12:00 15:30 18:40 20:40 22:20 | 10:05 11:40 13:10 18:10 20:10 |
| 01 02 03 04 | 2112 2112 2337 2337 2337 | 1 2 1 2 | NVT CGH BSB CWB | CGH BSB CWB POA | 07:40 09:07 15:54 18:00 | 08:37 10:30 17:40 19:00 |
| 01 02 03 04 05 06 07 08 09 | 2286 2286 2261 2261 2261 2261 2262 2262 | 1 2 1 2 3 4 1 2 1 | CPQ SDU BSB SDU CGH CWB MGF CWB CGH SDU | SDU BSB SDU CGH CWB MGF CWB CGH SDU PLU | 06:10 07:31 09:40 11:30 12:59 14:00 15:10 16:20 18:43 20:45 | 08:56 11:10 12:29 13:40 14:50 16:00 17:11 |
| 01 02 03 04 05 06 07 08 09 | 2224 2224 2224 2224 2191 2127 2103 2103 2332 2332 | 1 2 3 4 1 1 1 2 1 2 | MGF CWB CPQ SDU VIX SDU CGH FLN POA CWB | CWB CPQ SDU VIX SDU CGH FLN POA CWB GIG | 06:30 07:40 08:40 10:00 13:40 15:55 17:10 18:20 19:30 20:50 | 08:25 09:40 11:00 14:40 16:45 18:05 19:10 20:30 |
| 01 02 03 04 05 06 07 08 09 | CRAFT (2327 2327 2327 2102 2102 2102 2102 2105 2105 2105 CRAFT (| 1 2 3 1 2 3 4 1 2 3 | BSB CGH FLN POA FLN CGH GIG SSA GIG CGH | CGH FLN POA FLN CGH GIG SSA GIG CGH FLN | 06:56 09:02 10:10 11:30 12:40 14:02 15:30 17:50 20:10 21:46 | 09:55 11:00 12:20 13:32 15:00 17:25 19:39 |
| 01 02 03 04 05 06 07 | 2133 2134 2123 2124 2139 2140 2141 2252 | 1 1 1 1 1 1 1 1 | SDU CGH SDU CGH SDU CGH SDU CGH | CGH SDU CGH SDU CGH SDU CGH GYN | 06:20 07:46 10:28 12:01 14:26 15:52 17:19 18:47 | 11:28 13:01 15:20 16:59 18:09 |

| 09 | 2252 | 2 | GYN | BSB | 20:40 | 21:10 |
|----------|--------------|--------|------------|------|--------|-------|
| - AIRCI | RAFT 0 | 9 —— | | | | |
| 01 | 2334 | 1 | POA | CWB | 07:20 | |
| 02 | 2334 | 2 | CWB | GIG | 08:40 | |
| 03 | 2334 | 3 | GIG | BSB | 10:30 | 12:00 |
| 04 | 2334 | 4 | BSB | FOR | 12:30 | 15:00 |
| 05 | 2211 | 1 | FOR | REC | 15:50 | |
| 06 | 2211 | 2 | REC | SSA | 17:30 | |
| 07 | 2211 | 3 | SSA | PLU | 19:00 | |
| 08 | 2211 | 4 | PLU | CGH | 20:46 | |
| 09 | 2200 | 1 | CGH | CGR | 22:27 | 23:55 |
| - AIRCI | | | | | 0.6.10 | 00.56 |
| 01 | 2315 | 1 | FOR | BSB | 06:40 | |
| 02 | 2315 | 2 | BSB | CGH | 09:42 | 11:09 |
| 03 | 2236 | 1 | CGH | CGR | 11:45 | 13:14 |
| 04 | 2237 | 1 | CGR | CGH | 16:30 | |
| 05 | 2326 | 1 | CGH | BSB | 20:06 | 21:41 |
| - AIRCI | | | T7T \7 | ODII | 11.00 | 10.00 |
| 01 | 2194 | 1 | VIX | SDU | 11:20 | |
| 02 | 2194 | 2 1 | SDU | BSB | 12:40 | |
| 03 04 | 2193 2193 | | BSB | SDU | 14:50 | 16:20 |
| - AIRCI | | 2 | SDU | VIX | 16:40 | 17:40 |
| 01 | 2203 | 1 | דו דם | SDU | 07:00 | 08:00 |
| 02 | 2135 | 1 | PLU SDU | CGH | 09:00 | |
| 03 | 2208 | 1 | CGH | PLU | 12:05 | |
| 04 | 2223 | 1 | PLU | CGH | 13:26 | |
| 05 | 2260 | 1 | CGH | SDU | 16:31 | |
| 06 | 2260 | 2 | SDU | BSB | 17:41 | 19:08 |
| 07 | 2287 | 1 | BSB | SDU | 19:41 | 21:10 |
| 08 | 2287 | 2 | SDU | CPQ | 21:32 | 22:32 |
| - AIRCI | | | 500 | CI Q | 21.52 | |
| 01 | 2251 | 1 | BSB | GYN | 07:40 | 08:10 |
| 02 | 2251 | 2 | GYN | CGH | 08:30 | |
| 03 | 2256 | 1 | CGH | NVT | 10:24 | 11:20 |
| 04 | 2257 | 1 | NVT | CGH | 15:05 | |
| 05 | 2330 | 1 | CGH | GIG | 16:32 | 17:35 |
| 06 | 2330 | 2 | GIG | SSA | 18:00 | 19:50 |
| 07 | 2330 | 3 | SSA | REC | 20:10 | |
| 08 | 2330 | 4 | REC | FOR | 21:45 | 23:00 |
| - AIRCI | RAFT 1 | 4 | | | | |
| 01 | 2121 | 1 | SDU | CGH | 08:00 | 08:51 |
| 02 | 2136 | 1 | CGH | SDU | 10:29 | 11:29 |
| 03 | 2125 | 1 | SDU | CGH | 13:26 | 14:23 |
| 04 | 2210 | 1 | CGH | PLU | 14:52 | 15:57 |
| 05 | 2302 | 1 | PLU | BSB | 16:12 | 17:25 |
| 06 | 2303 | 1 | BSB | PLU | 18:10 | 19:19 |
| 07 | 2233 | 1 | PLU | SDU | 19:36 | 20:29 |
| 08 | 2131 | 1 | SDU | CGH | 21:16 | 22:09 |
| - AIRCI | | | | | | |
| 01 | 2109 | 1 | VIX | PLU | 06:25 | 07:14 |
| 02 | 2109 | 2 | PLU | CGH | 07:30 | 08:25 |
| 03 | 2206 | 1 | CGH | PLU | 09:09 | 10:20 |
| 04 | 2207 | 1 | PLU | CGH | 10:35 | 11:46 |
| 05 | 2126 | 1 | CGH | SDU | 14:50 | 15:40 |
| 06 | 2129 | 1 | SDU | CGH | 18:45 | 19:44 |
| 07 | 2130 | 1 | CGH | SDU | 20:13 | 20:52 |
| - AIRCI | | | | | | |
| 01 | 2197 | 1 | FOR | REC | 06:00 | 07:10 |
| 02 | 2197 | 2 | REC | SSA | 07:30 | 08:40 |
| 03 | 2197 | 3 | SSA | GIG | 09:00 | 11:00 |
| 04 | 2197 | 4 | GIG | CGH | 11:30 | 12:26 |
| 05 | 2180 | 1 | CGH | POA | 12:51 | 14:20 |
| | | | | | | |

| 06 | 2104 | 1 | POA | FLN | 19:20 | 20:10 | |
|-------|----------|-----|-----|-----|-------|-------|--|
| 07 | 2104 | 2 | FLN | CGH | 20:30 | 21:29 | |
| - AIF | RCRAFT 1 | 7 — | | | | | |
| 01 | 2217 | 1 | REC | BSB | 06:40 | 09:13 | |
| 02 | 2189 | 1 | BSB | PLU | 10:57 | 12:08 | |
| 03 | 2189 | 2 | PLU | VIX | 12:28 | 13:18 | |
| 04 | 2235 | 1 | VIX | SDU | 18:00 | 19:00 | |
| 05 | 2235 | 2 | SDU | CPQ | 19:20 | 20:20 | |
| 06 | 2235 | 3 | CPQ | CWB | 20:40 | 21:25 | |
| 07 | 2235 | 4 | CWB | MGF | 21:50 | 22:40 | |
| - AIF | RCRAFT 1 | 8 — | | | | | |
| 01 | 2101 | 1 | CGH | CWB | 09:12 | 10:00 | |
| 02 | 2242 | 1 | CWB | CGH | 10:30 | 11:18 | |
| 03 | 2242 | 2 | CGH | BSB | 11:50 | 13:20 | |
| 04 | 2242 | 3 | BSB | SSA | 13:50 | 15:50 | |
| 05 | 2243 | 1 | SSA | BSB | 16:20 | 18:08 | |
| 06 | 2243 | 2 | BSB | CGH | 18:38 | 20:10 | |
| 07 | 2243 | 3 | CGH | CWB | 20:47 | 21:30 | |
| 08 | 2243 | 4 | CWB | POA | 21:50 | 22:50 | |
| - AIF | RCRAFT 1 | 9 — | | | | | |
| 01 | 2333 | 1 | GIG | CWB | 07:00 | 08:20 | |
| 02 | 2333 | 2 | CWB | POA | 08:40 | 09:40 | |
| 03 | 2336 | 1 | POA | CWB | 10:00 | 11:00 | |
| 04 | 2336 | 2 | CWB | BSB | 11:20 | 13:09 | |
| 05 | 9999 | 1 | BSB | BSB | 14:00 | 20:00 | |
| 06 | 2216 | 1 | BSB | REC | 20:53 | 23:30 | |
| - AIF | RCRAFT 2 | 0 — | | | | | |
| 01 | 2100 | 1 | FLN | CGH | 07:26 | 08:27 | |
| 02 | 2100 | 2 | CGH | GIG | 09:05 | 10:05 | |
| 03 | 2100 | 3 | GIG | SSA | 10:30 | 12:29 | |
| 04 | 2285 | 1 | SSA | GIG | 16:00 | 17:59 | |
| 05 | 2285 | 2 | GIG | CGH | 18:30 | 19:27 | |
| 06 | 2144 | 1 | CGH | SDU | 21:14 | 22:04 | |
| - AIF | RCRAFT 2 | 1 — | | | | | |
| 01 | 2128 | 1 | CGH | SDU | 17:29 | | |
| 02 | 2143 | 1 | SDU | CGH | 20:00 | 20:48 | |
| | | | | | | | |

AIRCRAFT ROTATION SOLUTION 2

Breaking Flight Structure, no ferry flights, no departure time changes (20 aircraft)

| - ATR | CRAFT 0 | 1 —— | | | | |
|-------|---------|------|-----|-----|-------|-------|
| 01 | 2201 | 1 | CGR | CGH | 05:00 | 06:13 |
| 02 | 2120 | 1 | CGH | SDU | 06:51 | 07:42 |
| 03 | 2192 | 1 | SDU | PLU | 08:30 | 09:29 |
| 04 | 2198 | 1 | PLU | BSB | 09:44 | 11:08 |
| 05 | 2291 | 1 | BSB | CGH | 12:20 | 14:00 |
| 06 | 2291 | 2 | CGH | CWB | 14:30 | 15:20 |
| 07 | 2291 | 3 | CWB | POA | 15:40 | 16:40 |
| 08 | 2290 | 1 | POA | CWB | 17:10 | 18:10 |
| 09 | 2290 | 2 | CWB | CGH | 18:30 | 19:19 |
| 10 | 2230 | 1 | CGH | PLU | 20:00 | 21:00 |
| 11 | 2230 | 2 | PLU | VIX | 21:22 | 22:10 |
| - AIR | CRAFT 0 | 2 — | | | | |
| 01 | 2109 | 1 | VIX | PLU | 06:25 | 07:14 |
| 02 | 2109 | 2 | PLU | CGH | 07:30 | 08:25 |
| 03 | 2327 | 2 | CGH | FLN | 09:02 | 09:55 |
| 04 | 2327 | 3 | FLN | POA | 10:10 | 11:00 |
| 05 | 2102 | 1 | POA | FLN | 11:30 | 12:20 |
| 06 | 2102 | 2 | FLN | CGH | 12:40 | 13:32 |
| 07 | 2102 | 3 | CGH | GIG | 14:02 | 15:00 |

| 0.0 | 0400 | | | | 45.00 | 45 05 | |
|-------|---------|------|------|--------|-------|-------|--|
| 08 | 2102 | 4 | GIG | SSA | 15:30 | | |
| 09 | 2105 | 1 | SSA | GIG | 17:50 | | |
| 10 | 2105 | 2 | GIG | CGH | 20:10 | | |
| 11 | 2105 | 3 | CGH | FLN | 21:46 | 22:39 | |
| | CRAFT | 03 — | | | | | |
| 01 | 2286 | 1 | CPQ | SDU | 06:10 | 07:10 | |
| 02 | 2286 | 2 | SDU | BSB | 07:31 | 08:56 | |
| 03 | 2261 | 1 | BSB | SDU | 09:40 | 11:10 | |
| 04 | 2261 | 2 | SDU | CGH | 11:30 | 12:29 | |
| 05 | 2261 | 3 | CGH | CWB | 12:59 | 13:40 | |
| 06 | 2261 | 4 | CWB | MGF | 14:00 | 14:50 | |
| 07 | 2262 | 1 | MGF | CWB | 15:10 | 16:00 | |
| 08 | 2262 | 2 | CWB | CGH | 16:20 | | |
| 09 | 2142 | 1 | CGH | SDU | 18:43 | 19:42 | |
| 10 | 2232 | 1 | SDU | PLU | 20:45 | 21:40 | |
| | CRAFT (| | 300 | F 110 | 20.45 | 21.40 | |
| 01 | 2224 | 1 | MGF | CWB | 06:30 | 07:20 | |
| | | | | | | | |
| 02 | 2220 | 2 | CWB | CGH | 07:40 | 08:40 | |
| 03 | 2100 | 2 | CGH | GIG | 09:05 | 10:05 | |
| 04 | 2334 | 3 | GIG | BSB | 10:30 | 12:00 | |
| 05 | 2334 | 4 | BSB | FOR | 12:30 | | |
| 06 | 2335 | 1 | FOR | BSB | 15:30 | | |
| 07 | 2335 | 2 | BSB | GIG | 18:40 | 20:10 | |
| 08 | 2335 | 3 | GIG | CWB | 20:40 | 22:00 | |
| 09 | 2335 | 4 | CWB | POA | 22:20 | 23:20 | |
| - AIR | CRAFT | 05 — | | | | | |
| 01 | 2220 | 1 | POA | CWB | 06:20 | 07:20 | |
| 02 | 2224 | 2 | CWB | CPQ | 07:40 | 08:25 | |
| 03 | 2224 | 3 | CPQ | SDU | 08:40 | 09:40 | |
| 04 | 2123 | 1 | SDU | CGH | 10:28 | 11:28 | |
| 05 | 2124 | 1 | CGH | SDU | 12:01 | | |
| 06 | 2190 | 1 | SDU | VIX | 15:00 | 15:50 | |
| 07 | 2119 | 1 | VIX | PLU | 16:10 | | |
| 08 | 2119 | 2 | | | 17:15 | | |
| | | | PLU | CGH | | | |
| 09 | 2314 | 1 | CGH | BSB | 18:49 | | |
| 10 | 2314 | 2 | BSB | FOR | 20:49 | 23:21 | |
| | CRAFT (| | DEG | D.C.D. | 06.40 | 00 10 | |
| 01 | 2217 | 1 | REC | BSB | 06:40 | 09:13 | |
| 02 | 2189 | 1 | BSB | PLU | 10:57 | 12:08 | |
| 03 | 2189 | 2 | PLU | VIX | 12:28 | 13:18 | |
| 04 | 2191 | 1 | VIX | SDU | 13:40 | 14:40 | |
| 05 | 2127 | 1 | SDU | CGH | 15:55 | 16:45 | |
| 06 | 2103 | 1 | CGH | FLN | 17:10 | 18:05 | |
| 07 | 2103 | 2 | FLN | POA | 18:20 | 19:10 | |
| 08 | 2332 | 1 | POA | CWB | 19:30 | 20:30 | |
| 09 | 2332 | 2 | CWB | GIG | 20:50 | 22:10 | |
| - AIR | CRAFT (| 07 — | | | | | |
| 01 | 2327 | 1 | BSB | CGH | 06:56 | 08:30 | |
| 02 | 2112 | 2 | CGH | BSB | 09:07 | 10:30 | |
| 03 | 2242 | 3 | BSB | SSA | 13:50 | 15:50 | |
| 04 | 2243 | 1 | SSA | BSB | 16:20 | 18:08 | |
| 05 | 2243 | 2 | BSB | CGH | 18:38 | 20:10 | |
| 06 | 2243 | 3 | CGH | CWB | 20:47 | 21:30 | |
| 07 | 2235 | 4 | CWB | MGF | 21:50 | 22:40 | |
| | CRAFT (| | CVLD | | 21.00 | | |
| 01 | 2100 | 1 | FLN | CGH | 07:26 | 08:27 | |
| 02 | 2206 | 1 | CGH | PLU | 09:09 | 10:20 | |
| | | | | | | | |
| 03 | 2207 | 1 | PLU | CGH | 10:35 | 11:46 | |
| 04 | 2126 | 1 | CGH | SDU | 14:50 | 15:40 | |
| 05 | 2193 | 2 | SDU | VIX | 16:40 | 17:40 | |
| 06 | 2235 | 1 | VIX | SDU | 18:00 | 19:00 | |
| 07 | 2235 | 2 | SDU | CPQ | 19:20 | 20:20 | |
| 08 | 2235 | 3 | CPQ | CWB | 20:40 | 21:25 | |
| | | | | | | | |

| 09 | 2243 | 4 | CWB | POA | 21:50 | 22:50 | |
|-------|---------|-----|------|-------|----------|-------|--|
| | CRAFT 0 | | | | 0.6. 5.0 | | |
| 01 | 2202 | 1 | CGH | PLU | 06:58 | 08:20 | |
| 02 | 2202 | 2 | PLU | SSA | 08:35 | 10:05 | |
| 03 | 2202 | 3 | SSA | REC | 10:30 | | |
| 04 | 2202 | 4 | REC | FOR | 12:00 | 13:10 | |
| 05 | 2211 | 1 | FOR | REC | 15:50 | 17:00 | |
| 06 | 2211 | 2 | REC | SSA | 17:30 | 18:40 | |
| 07 | 2211 | 3 | SSA | PLU | 19:00 | 20:31 | |
| 08 | 2211 | 4 | PLU | CGH | 20:46 | 22:02 | |
| - AIR | CRAFT 1 | 0 — | | | | | |
| 01 | 2315 | 1 | FOR | BSB | 06:40 | 08:56 | |
| 02 | 2315 | 2 | BSB | CGH | 09:42 | 11:09 | |
| 03 | 2236 | 1 | CGH | CGR | 11:45 | | |
| 04 | 2237 | 1 | CGR | CGH | 16:30 | 18:03 | |
| 05 | 2326 | 1 | CGH | BSB | 20:06 | 21:41 | |
| | CRAFT 1 | | | | 20.00 | | |
| 01 | 2333 | 1 | GIG | CWB | 07:00 | 08:20 | |
| 02 | 2333 | 2 | | | | | |
| | | | CWB | POA | 08:40 | | |
| 03 | 2336 | 1 | POA | CWB | 10:00 | | |
| 04 | 2336 | 2 | CWB | BSB | 11:20 | | |
| 05 | 2337 | 1 | BSB | CWB | 15:54 | | |
| 06 | 2337 | 2 | CWB | POA | 18:00 | | |
| 08 | 2200 | 1 | CGH | CGR | 22:27 | 23:55 | |
| | CRAFT 1 | | | | | | |
| 01 | 2203 | 1 | PLU | SDU | 07:00 | 08:00 | |
| 02 | 2135 | 1 | SDU | CGH | 09:00 | 10:07 | |
| 03 | 2242 | 2 | CGH | BSB | 11:50 | 13:20 | |
| 04 | 9999 | 1 | BSB | BSB | 14:00 | 20:00 | |
| 05 | 2216 | 1 | BSB | REC | 20:53 | 23:30 | |
| - AIR | CRAFT 1 | 3 — | | | | | |
| 01 | 2112 | 1 | NVT | CGH | 07:40 | 08:37 | |
| 02 | 2101 | 1 | CGH | CWB | 09:12 | | |
| 03 | 2242 | 1 | CWB | CGH | 10:30 | | |
| 04 | 2208 | 1 | CGH | PLU | 12:05 | 13:09 | |
| 05 | 2223 | 1 | PLU | CGH | 13:26 | 14:31 | |
| 06 | 2140 | 1 | CGH | SDU | 15:52 | 16:59 | |
| 07 | 2260 | 2 | SDU | BSB | 17:41 | 19:08 | |
| | | | | | | | |
| 08 | 2287 | 1 | BSB | SDU | 19:41 | 21:10 | |
| 09 | 2287 | 2 | SDU | CPQ | 21:32 | 22:32 | |
| | CRAFT 1 | | apii | 0011 | 06.00 | 07.00 | |
| 01 | 2133 | 1 | SDU | CGH | 06:20 | | |
| 02 | 2134 | 1 | CGH | SDU | 07:46 | | |
| 03 | 2224 | 4 | SDU | VIX | 10:00 | 11:00 | |
| 04 | 2194 | 1 | VIX | SDU | 11:20 | | |
| 05 | 2194 | 2 | SDU | BSB | | | |
| 06 | 2193 | 1 | BSB | SDU | 14:50 | | |
| 07 | 2141 | 1 | SDU | CGH | 17:19 | 18:09 | |
| 08 | 2252 | 1 | CGH | GYN | 18:47 | 20:20 | |
| 09 | 2252 | 2 | GYN | BSB | 20:40 | 21:10 | |
| - AIR | CRAFT 1 | 5 — | | | | | |
| 01 | 2197 | 1 | FOR | REC | 06:00 | 07:10 | |
| 02 | 2197 | 2 | REC | SSA | 07:30 | | |
| 03 | 2197 | 3 | SSA | GIG | 09:00 | | |
| 04 | | 4 | GIG | CGH | 11:30 | 12:26 | |
| 05 | 2180 | 1 | CGH | POA | 12:51 | 14:20 | |
| 06 | 2104 | 1 | POA | FLN | 19:20 | | |
| 07 | | | | | | | |
| | 2104 | 2 | FLN | CGH | 20:30 | 21:29 | |
| | CRAFT 1 | | DOD | CSZAT | 07-40 | 00.10 | |
| 01 | 2251 | 1 | BSB | GYN | 07:40 | | |
| 02 | 2251 | 2 | GYN | CGH | | | |
| 03 | 2256 | 1 | CGH | NVT | 10:24 | | |
| 04 | 2257 | 1 | NVT | CGH | 15:05 | 16:06 | |
| | | | | | | | |

| 05 | 2330 | 1 | CGH | GIG | 16:32 | 17:35 |
|--------|---------|-------|-----|-----|-------|-------|
| 06 | 2330 | 2 | GIG | SSA | 18:00 | 19:50 |
| 07 | 2330 | 3 | SSA | REC | 20:10 | 21:25 |
| 08 | 2330 | 4 | REC | FOR | 21:45 | 23:00 |
| - AIRC | RAFT 1 | 7 ——— | | | | |
| 01 | 2334 | 1 | POA | CWB | 07:20 | 08:20 |
| 02 | 2334 | 2 | CWB | GIG | 08:40 | 10:00 |
| 03 | 2100 | 3 | GIG | SSA | 10:30 | 12:29 |
| 04 | 2285 | 1 | SSA | GIG | 16:00 | 17:59 |
| 05 | 2285 | 2 | GIG | CGH | 18:30 | 19:27 |
| 06 | 2130 | 1 | CGH | SDU | 20:13 | 20:52 |
| 07 | 2131 | 1 | SDU | CGH | 21:16 | 22:09 |
| - AIRC | CRAFT 1 | 8 —— | | | | |
| 01 | 2121 | 1 | SDU | CGH | 08:00 | 08:51 |
| 02 | 2122 | 1 | CGH | SDU | 09:21 | 10:11 |
| 03 | 2125 | 1 | SDU | CGH | 13:26 | 14:23 |
| 04 | 2210 | 1 | CGH | PLU | 14:52 | 15:57 |
| 05 | 2302 | 1 | PLU | BSB | 16:12 | 17:25 |
| 06 | 2303 | 1 | BSB | PLU | 18:10 | 19:19 |
| 07 | 2233 | 1 | PLU | SDU | 19:36 | 20:29 |
| - AIRC | CRAFT 1 | 9 ——— | | | | |
| 01 | 2136 | 1 | CGH | SDU | 10:29 | 11:29 |
| 02 | 2139 | 1 | SDU | CGH | 14:26 | 15:20 |
| 03 | 2260 | 1 | CGH | SDU | 16:31 | 17:21 |
| 04 | 2129 | 1 | SDU | CGH | 18:45 | 19:44 |
| 05 | 2144 | 1 | CGH | SDU | 21:14 | 22:04 |
| - AIRC | CRAFT 2 | o ——— | | | | |
| 01 | 2128 | 1 | CGH | SDU | 17:29 | 18:29 |
| 02 | 2143 | 1 | SDU | CGH | 20:00 | 20:48 |

AIRCRAFT ROTATION SOLUTION 3

Breaking Flight Structure, Ferry flights accepted, no departure time changes (19 aircraft)

| - AIR | CRAFT 0 | 1 — | | | | | _ |
|-------|---------|-----|-----|-----|-------|-------|---|
| 01 | 2201 | 1 | CGR | CGH | 05:00 | 06:13 | |
| 02 | 2120 | 1 | CGH | SDU | 06:51 | 07:42 | |
| 03 | 2192 | 1 | SDU | PLU | 08:30 | 09:29 | |
| 04 | 2198 | 1 | PLU | BSB | 09:44 | 11:08 | |
| 05 | 2291 | 1 | BSB | CGH | 12:20 | 14:00 | |
| 06 | 2291 | 2 | CGH | CWB | 14:30 | 15:20 | |
| 07 | 2291 | 3 | CWB | POA | 15:40 | 16:40 | |
| 08 | 2290 | 1 | POA | CWB | 17:10 | 18:10 | |
| 09 | 2290 | 2 | CWB | CGH | 18:30 | 19:19 | |
| 10 | 2230 | 1 | CGH | PLU | 20:00 | 21:00 | |
| 11 | 2230 | 2 | PLU | VIX | 21:22 | 22:10 | |
| - AIR | CRAFT 0 | 2 — | | | | | - |
| 01 | 2109 | 1 | VIX | PLU | 06:25 | 07:14 | |
| 02 | 2109 | 2 | PLU | CGH | 07:30 | 08:25 | |
| 03 | 2327 | 2 | CGH | FLN | 09:02 | 09:55 | |
| 04 | 2327 | 3 | FLN | POA | 10:10 | 11:00 | |
| 05 | 2102 | 1 | POA | FLN | 11:30 | 12:20 | |
| 06 | 2102 | 2 | FLN | CGH | 12:40 | 13:32 | |
| 07 | 2102 | 3 | CGH | GIG | 14:02 | 15:00 | |
| 08 | 2102 | 4 | GIG | SSA | 15:30 | 17:25 | |
| 09 | 2105 | 1 | SSA | GIG | 17:50 | 19:39 | |
| 10 | 2105 | 2 | GIG | CGH | 20:10 | 21:15 | |
| 11 | 2105 | 3 | CGH | FLN | 21:46 | 22:39 | |
| - AIR | CRAFT 0 | 3 — | | | | | - |
| 01 | 2220 | 1 | POA | CWB | 06:20 | 07:20 | |
| 02 | 2224 | 2 | CWB | CPQ | 07:40 | 08:25 | |
| | | | | | | | |

| 03 04 05 06 07 08 09 10 - AII | 2224 3 2123 1 2124 1 2190 1 2119 1 2119 2 2252 1 2252 2 RCRAFT 04 — 2100 1 | CPQ SDU CGH SDU VIX PLU CGH GYN | SDU CGH SDU VIX PLU CGH GYN BSB | 08:40 10:28 12:01 15:00 16:10 17:15 18:47 20:40 | 09:40 11:28 13:01 15:50 17:00 18:15 20:20 21:10 | | _ |
|---|--|--|--|--|--|-------|--------|
| 02 | 2100 1 2206 1 2207 1 | FLN CGH PLU | CGH PLU CGH | 07:26 09:09 10:35 | 08:27 10:20 11:46 | | |
| 04 | 2261 3 | CGH | CWB | 12:59 | 13:40 | | |
| 05 | 2261 4 | CWB | MGF | 14:00 | 14:50 | | |
| 06 | 2262 1 | MGF | CWB | 15:10 | 16:00 | | |
| 07 08 | 2262 2 2130 1 | CWB CGH | CGH SDU | 16:20 20:13 | 17:11 20:52 | | |
| 09 | 2131 1 | SDU | CGH | 21:16 | 22:09 | | |
| 10 | 2251 1 | BSB | GYN | 07:40 | 08:10 | | |
| | RCRAFT 05 — | | | | | | _ |
| 01 02 | 2197 1 2197 2 | FOR REC | REC SSA | 06:00 07:30 | 07:10 08:40 | | |
| 03 | 2197 3 | SSA | GIG | 09:00 | 11:00 | | |
| 04 | 2197 4 | GIG | CGH | 11:30 | 12:26 | | |
| 05 | 2180 1 | CGH | POA | 12:51 | 14:20 | | |
| 06 | 9999 1 | POA | CGH | 14:50 | 16:19 | Ferry | Flight |
| 07 08 | 2128 1 2235 2 | CGH SDU | SDU CPQ | 17:29 19:20 | 18:29 20:20 | | |
| 09 | 2235 3 | CPQ | CWB | 20:40 | 21:25 | | |
| 10 | 2235 4 | CWB | MGF | 21:50 | 22:40 | | |
| | RCRAFT 06 — | | | | | | - |
| 01 | 2286 1 | CPQ | SDU | 06:10 | 07:10 | | |
| 02 03 | 2286 2 2261 1 | SDU BSB | BSB SDU | 07:31 09:40 | 08:56 11:10 | | |
| 04 | 2125 1 | SDU | CGH | 13:26 | 14:23 | | |
| 05 | 2126 1 | CGH | SDU | 14:50 | 15:40 | | |
| 06 | 2193 2 | SDU | VIX | 16:40 | 17:40 | | |
| 07 08 | 2235 1 2143 1 | VIX SDU | SDU CGH | 18:00 20:00 | 19:00 20:48 | | |
| 09 | 2144 1 | CGH | SDU | 21:14 | 22:04 | | |
| | RCRAFT 07 — | | | | | | _ |
| 01 | 2133 1 | SDU | CGH | 06:20 | 07:20 | | |
| 02 03 | 2134 1 2224 4 | CGH | SDU | 07:46 | 08:47 | | |
| 0.3 | 2224 4 2194 1 | SDU VIX | VIX SDU | 10:00 11:20 | 11:00 12:20 | | |
| 05 | 2139 1 | SDU | CGH | | 15:20 | | |
| 06 | 2140 1 | CGH | SDU | | 16:59 | | |
| 07 | 2141 1 | SDU | CGH | | 18:09 | | |
| 08 09 | 2142 1 2232 1 | CGH SDU | SDU PLU | 18:43 20:45 | 19:42 | | |
| | RCRAFT 08 — | | | 20.45 | 21.40 | | _ |
| 01 | 2224 1 | MGF | CWB | 06:30 | 07:20 | | |
| 02 | 2220 2 | CWB | CGH | 07:40 | 08:40 | | |
| 03 04 | 2100 2 2334 3 | CGH GIG | GIG BSB | 09:05 10:30 | 10:05 12:00 | | |
| 05 | 2334 4 | BSB | FOR | 12:30 | 15:00 | | |
| 06 | 2335 1 | FOR | BSB | 15:30 | 18:10 | | |
| 06 | 2335 2 | BSB | GIG | 18:40 | 20:10 | | |
| 07 08 | 2335 3 | GIG | CWB | 20:40 | 22:00 | | |
| | 2335 4 RCRAFT 09 — | CWB | POA | 22:20 | 23:20 | | _ |
| 01 | 2217 1 | REC | BSB | 06:40 | 09:13 | | |
| 02 | 2189 1 | BSB | PLU | 10:57 | 12:08 | | |
| | | | | | | | |

| 03 04 05 06 07 08 09 | 2189 2191 2127 2103 2103 2332 2332 | 2 1 1 2 1 2 | PLU VIX SDU CGH FLN POA CWB | VIX SDU CGH FLN POA CWB GIG | 12:28 13:40 15:55 17:10 18:20 19:30 20:50 | 14:40 16:45 18:05 |
|---|---|---|---|---|---|---|
| 01 02 03 04 05 06 07 08 | CRAFT 1 2202 2202 2202 2201 2211 2211 2211 22 | 1 2 3 4 1 2 3 4 1 | CGH PLU SSA REC FOR REC SSA PLU CGH | PLU SSA REC FOR REC SSA PLU CGH CGR | 06:58 08:35 10:30 12:00 15:50 17:30 19:00 20:46 22:27 | 08:20 10:05 11:40 13:10 17:00 18:40 20:31 22:02 23:55 |
| 01 02 03 04 05 06 07 08 | 2112 2101 2242 2208 2223 2330 2330 2330 2330 | 1 1 1 1 1 1 2 3 4 | NVT CGH CWB CGH PLU CGH GIG SSA REC | CGH CWB CGH PLU CGH GIG SSA REC FOR | 07:40 09:12 10:30 12:05 13:26 16:32 18:00 20:10 21:45 | 08:37 10:00 11:18 13:09 14:31 17:35 19:50 21:25 23:00 |
| 01 02 03 04 05 06 07 | CRAFT 1 2333 2333 2336 2336 2193 2260 2287 2287 CRAFT 1 | 1 2 1 2 1 2 1 2 | GIG CWB POA CWB BSB SDU BSB SDU | CWB POA CWB BSB SDU BSB SDU CPQ | 07:00 08:40 10:00 11:20 14:50 17:41 19:41 21:32 | 08:20 09:40 11:00 13:09 16:20 19:08 21:10 22:32 |
| 01 02 03 04 05 06 07 - AIR | 2327 2112 2242 2243 2243 2243 2243 CRAFT 1 | 1 2 3 1 2 3 4 4 | BSB CGH BSB SSA BSB CGH CWB | CGH BSB SSA BSB CGH CWB POA | 06:56 09:07 13:50 16:20 18:38 20:47 21:50 | 08:30 10:30 15:50 18:08 20:10 21:30 22:50 |
| 01 02 03 04 05 06 07 - AIR | 2121 2122 2261 2210 2302 2303 2233 CRAFT 1 2315 | 1 1 2 1 1 1 5 | SDU CGH SDU CGH PLU BSB PLU | CGH SDU CGH PLU BSB PLU SDU | 08:00 09:21 11:30 14:52 16:12 18:10 19:36 | 08:51 10:11 12:29 15:57 17:25 19:19 20:29 |
| 02 03 04 05 06 | 2315 2236 2237 2314 2314 CRAFT 1 2334 2334 2100 | 2 1 1 1 2 | BSB CGH CGR CGH BSB | CGH CGR CGH BSB FOR CWB GIG SSA | 09:42 11:45 16:30 18:49 20:49 07:20 08:40 10:30 | 11:09 13:14 18:03 20:19 23:21 08:20 10:00 12:29 |

| 04 | 2285 | 1 | SSA | GIG | 16:00 | 17:59 |
|--------|---------|-------|-----|-----|-------|-------|
| 05 | 2285 | 2 | GIG | CGH | 18:30 | 19:27 |
| 06 | 2326 | 1 | CGH | BSB | 20:06 | 21:41 |
| - AIRC | RAFT 1 | 7 ——— | | | | |
| 01 | 2136 | 1 | CGH | SDU | 10:29 | 11:29 |
| 02 | 2194 | 2 | SDU | BSB | 12:40 | 14:10 |
| 03 | 2337 | 1 | BSB | CWB | 15:54 | 17:40 |
| 04 | 2337 | 2 | CWB | POA | 18:00 | 19:00 |
| 05 | 2104 | 1 | POA | FLN | 19:20 | 20:10 |
| 06 | 2104 | 2 | FLN | CGH | 20:30 | 21:29 |
| - AIRC | RAFT 18 | 3 ——— | | | | |
| 01 | 2203 | 1 | PLU | SDU | 07:00 | 08:00 |
| 02 | 2135 | 1 | SDU | CGH | 09:00 | 10:07 |
| 03 | 2242 | 2 | CGH | BSB | 11:50 | 13:20 |
| 04 | 9999 | 1 | BSB | BSB | 14:00 | 20:00 |
| 05 | 2216 | 1 | BSB | REC | 20:53 | 23:30 |
| - AIRC | RAFT 19 | 9 —— | | | | |
| 01 | 2251 | 2 | GYN | CGH | 08:30 | 09:57 |
| 02 | 2256 | 1 | CGH | NVT | 10:24 | 11:20 |
| 03 | 2257 | 1 | NVT | CGH | 15:05 | 16:06 |
| 04 | | | | | | |
| | 2260 | 1 | CGH | SDU | 16:31 | 17:21 |

AIRCRAFT ROTATION SOLUTION 4

Breaking flight structure accepted, Ferry flights accepted, +- 5 minutes in departure time accepted. Aircraft Number Fixed in 18. Cancelations Accepted.

| - AII | RCRAFT (| 1 - | | | | | | _ |
|-------|----------|------|-----|-----|-------|-------|-------|--------|
| 01 | 2201 | 1 | CGR | CGH | 05:00 | 06:13 | | |
| 02 | 2120 | 1 | CGH | SDU | 06:51 | 07:42 | | |
| 03 | 2192 | 1 | SDU | PLU | 08:30 | 09:29 | | |
| 04 | 2198 | 1 | PLU | BSB | 09:44 | 11:08 | | |
| 05 | 2291 | 1 | BSB | CGH | 12:20 | 14:00 | | |
| 06 | 2291 | 2 | CGH | CWB | 14:30 | 15:20 | | |
| 07 | 2291 | 3 | CWB | POA | 15:40 | 16:40 | | |
| 08 | 2290 | 1 | POA | CWB | 17:10 | 18:10 | | |
| 09 | 2290 | 2 | CWB | CGH | 18:30 | 19:19 | | |
| 10 | 2230 | 1 | CGH | PLU | 20:00 | 21:00 | | |
| 11 | 2230 | 2 | PLU | VIX | 21:22 | 22:10 | | |
| - AII | RCRAFT (|)2 — | | | | | | _ |
| 01 | 2109 | 1 | VIX | PLU | 06:25 | 07:14 | | |
| 02 | 2109 | 2 | PLU | CGH | 07:30 | 08:25 | | |
| 03 | 2327 | 2 | CGH | FLN | 09:02 | 09:55 | | |
| 04 | 2327 | 3 | FLN | POA | 10:10 | 11:00 | | |
| 05 | 2102 | 1 | POA | FLN | 11:30 | 12:20 | | |
| 06 | 2102 | 2 | FLN | CGH | 12:40 | 13:32 | | |
| 07 | 2102 | 3 | CGH | GIG | 14:02 | 15:00 | | |
| 8 0 | 2102 | 4 | GIG | SSA | 15:30 | 17:25 | | |
| 09 | 2105 | 1 | SSA | GIG | 17:50 | 19:39 | | |
| 10 | 2105 | 2 | GIG | CGH | 20:10 | 21:15 | | |
| 11 | 2105 | 3 | CGH | FLN | 21:46 | 22:39 | | |
| - AII | RCRAFT (| 3 — | | | | | | |
| 01 | 2197 | 1 | FOR | REC | 06:00 | 07:10 | | |
| 02 | 2197 | 2 | REC | SSA | 07:30 | 08:40 | | |
| 03 | 2197 | 3 | SSA | GIG | 09:00 | 11:00 | | |
| 04 | 2197 | 4 | GIG | CGH | 11:30 | 12:26 | | |
| 05 | 2180 | 1 | CGH | POA | 12:51 | 14:20 | | |
| 06 | 9999 | 1 | POA | CGH | 14:50 | 16:20 | Ferry | Flight |
| 07 | 2128 | 1 | CGH | SDU | 17:29 | 18:29 | | |
| 8 0 | 2235 | 2 | SDU | CPQ | 19:20 | 20:20 | | |
| 09 | 2235 | 3 | CPQ | CWB | 20:40 | 21:25 | | |
| | | | | | | | | |

| 10 | 2235 | 4 | CWB | MGF | 21:50 | 22:40 | |
|----------|-----------------|-----------|-------|-----|----------------|----------------|--------------|
| - AIR | CRAFT (|)4 — | | | | | |
| 01 | 2286 | 1 | CPQ | SDU | 06:10 | 07:10 | |
| 02 | 2286 | 2 | SDU | BSB | 07:31 | 08:56 | |
| 03 | 2261 | 1 | BSB | SDU | 09:40 | 11:10 | |
| 04 | 2261 | 2 | SDU | CGH | 11:30 | 12:29 | |
| 05 | 2261 | 3 | CGH | CWB | 12:59 | 13:40 | |
| 06 | 2261 | 4 | CWB | MGF | 14:00 | 14:50 | |
| 07 | 2262 | 1 | MGF | CWB | 15:10 | 16:00 | |
| 08 | 2262 | 2 | CWB | CGH | 16:20 | 17:11 | |
| 09 | 2142 | 1 | CGH | SDU | 18:43 | 19:42 | |
| 10 | 2232 | 1 | SDU | PLU | 20:45 | 21:40 | |
| - AIR | CRAFT (|)5 — | | | | | |
| 01 | 2133 | 1 | SDU | CGH | 06:20 | 07:20 | |
| 02 | 2134 | 1 | CGH | SDU | 07:46 | 08:47 | |
| 03 | 2224 | 4 | SDU | VIX | 10:00 | 11:00 | |
| 04 | 2194 | 1 | VIX | SDU | 11:20 | 12:20 | |
| 05 | 2194 | 2 | SDU | BSB | 12:40 | 14:10 | |
| 06 | 2193 | 1 | BSB | SDU | 14:50 | 16:20 | |
| 07 | 2193 | 2 | SDU | VIX | 16:40 | 17:40 | |
| 08 | 2235 | 1 | VIX | SDU | 18:00 | 19:00 | |
| 09 | 2143 | 1 | SDU | CGH | 20:00 | 20:48 | |
| 10 | 2113 | 1 | CGH | SDU | 21:14 | 22:04 | |
| | CRAFT (| | | | 21.11 | | |
| 01 | 2220 | 1 | POA | CWB | 06:20 | 07:20 | |
| 02 | 2224 | 2 | CWB | CPQ | 07:40 | 08:25 | |
| 03 | 2224 | 3 | CPQ | SDU | 08:40 | 09:40 | |
| 04 | 2123 | 1 | SDU | CGH | 10:28 | 11:28 | |
| 0.5 | 2124 | 1 | CGH | SDU | 12:01 | 13:01 | |
| 06 | 2125 | 1 | SDU | CGH | 13:26 | 14:23 | |
| 07 | 2126 | 1 | CGH | SDU | 14:50 | 15:40 | |
| 08 | 2141 | 1 | SDU | CGH | 17:19 | 18:09 | |
| 09 | 2252 | 1 | CGH | GYN | 18:47 | 20:20 | |
| 10 | 2252 | 2 | GYN | BSB | 20:40 | 21:10 | |
| | CRAFT (| | | | 20.10 | | |
| 01 | 2121 | 1 | SDU | CGH | 08:00 | 08:51 | |
| 02 | 2122 | 1 | CGH | SDU | 09:21 | 10:11 | |
| 03 | 9999 | 1 | SDU | CGH | 10:31 | 11:10 | Ferry Flight |
| 04 | 2208 | 1 | CGH | PLU | 12:05 | 13:09 | rerry rright |
| 05 | 2223 | 1 | PLU | CGH | 13:26 | 14:31 | |
| 06 | 2210 | 1 | CGH | PLU | 14:52 | 15:57 | + 4 min |
| 07 | 2302 | 1 | | | 16:12 | 17:25 | + 4 min |
| | | | PLU | BSB | | | ⊤ 4 IIIIII |
| 08 09 | 2303 2233 | 1 1 | BSB | PLU | 18:10 19:36 | 19:19 20:29 | |
| | ZZJJ CRAFT (| | PLU | SDU | 19.30 | 20.29 | |
| | | | MCE | CMD | 06:30 | 07.20 | |
| 01 02 | 2224 2220 | 1 2 | MGF | CWB | | 07:20 08:40 | |
| | | | CWB | CGH | 07:40 | | |
| 03 | 2100 2334 | 2 | CGH | GIG | 09:05 10:30 | 10:05 12:00 | |
| 04 | | | GIG | BSB | | | |
| 05 | 2334 | 4 | BSB | FOR | 12:30 | 15:00 | |
| 06 | 2335 | 1 | FOR | BSB | 15:30 | 18:10 | |
| 07 | 2243 | 2 | BSB | CGH | 18:38 | 20:10 | |
| 08 | 2243 | 3 | CGH | CWB | 20:47 | 21:30 | |
| 09 | 2243 | 4 | CWB | POA | 21:50 | 22:50 | |
| - AIR | CRAFT (2100 |)9 — 1 | ET NI | CCu | 07:26 | 08:27 | |
| | | | FLN | CGH | | | |
| 02 | 2206 | 1 | CGH | PLU | 09:09 | 10:20 | |
| 03 | 2207 | 1 | PLU | CGH | 10:35 | 11:46 | Form |
| 04 | 9999 | 1 | CGH | SDU | 12:16 | 12:55 | Ferry Flight |
| 05 | 2139 | 1 | SDU | CGH | 14:26 | 15:20 | |
| 06 | 2260 | 1 | CGH | SDU | 16:31 | 17:21 | |
| 07 | 2129 | 1 | SDU | CGH | 18:45 | 19:44 | |
| 08 | 2130 | 1 | CGH | SDU | 20:13 | 20:52 | |
| | | | | | | | |

| 09 | 2131 | 1 | SDU | CGH | 21:16 | 22:09 | | |
|--------|---------|------|------|-----|--------|-------|-------|--------|
| | CRAFT 1 | | | | | | | _ |
| 01 | 2217 | 1 | REC | BSB | 06:40 | 09:13 | | |
| 02 | 2189 | 1 | BSB | PLU | 10:57 | 12:08 | | |
| 03 | 2189 | 2 | PLU | VIX | 12:28 | 13:18 | | |
| 04 | 9999 | 1 | VIX | SDU | 13:48 | 14:38 | Ferry | Flight |
| 05 | 2127 | 1 | SDU | CGH | 15:55 | 16:45 | | |
| 06 | 2103 | 1 | CGH | FLN | 17:10 | 18:05 | | |
| 07 | 2103 | 2 | FLN | POA | 18:20 | 19:10 | | |
| 08 | 2332 | 1 | POA | CWB | 19:30 | 20:30 | | |
| 09 | 2332 | 2 | CWB | GIG | 20:50 | 22:10 | | |
| - AIRO | CRAFT 1 | 11 — | | | | | | _ |
| 01 | 2333 | 1 | GIG | CWB | 07:00 | 08:20 | | |
| 02 | 2333 | 2 | CWB | POA | 08:40 | 09:40 | | |
| 03 | 2336 | 1 | POA | CWB | 10:00 | 11:00 | | |
| 04 | 2336 | 2 | CWB | BSB | 11:20 | 13:09 | | |
| 05 | 2242 | 3 | BSB | SSA | 13:50 | 15:50 | | |
| 06 | 2243 | 1 | SSA | BSB | 16:20 | 18:08 | | |
| 07 | 2335 | 2 | BSB | GIG | 18:40 | 20:10 | | |
| 0.8 | 2335 | 3 | GIG | CWB | 20:40 | 22:00 | | |
| 09 | 2335 | 4 | CWB | POA | 22:20 | 23:20 | | |
| | CRAFT 1 | | | | | | | |
| 01 | 2327 | 1 | BSB | CGH | 06:56 | 08:30 | | |
| 02 | 2112 | 2 | CGH | BSB | 09:07 | 10:30 | | |
| 03 | 9999 | 1 | BSB | VIX | 11:00 | 13:00 | Ferry | Flight |
| 04 | 2191 | 1 | VIX | SDU | 13:40 | 14:40 | 1 | 5 |
| 0.5 | 2190 | 1 | SDU | VIX | 15:00 | 15:50 | | |
| 06 | 2119 | 1 | VIX | PLU | 16:10 | 17:00 | | |
| 07 | 2119 | 2 | PLU | CGH | 17:15 | 18:15 | | |
| 08 | 2314 | 1 | CGH | BSB | 18:49 | 20:19 | | |
| 09 | 2314 | 2 | BSB | FOR | 20:49 | 23:21 | | |
| | CRAFT 1 | | | | 20.49 | 23.21 | | |
| 01 | 2202 | 1 | CGH | PLU | 06:58 | 08:20 | | |
| 02 | 2202 | 2 | PLU | SSA | 08:35 | 10:05 | | |
| 03 | 2202 | 3 | SSA | REC | 10:30 | 11:40 | | |
| 04 | 2202 | 4 | REC | FOR | 12:00 | 13:10 | | |
| 05 | 2211 | 1 | FOR | REC | 15:50 | 17:00 | | |
| 06 | 2211 | 2 | | | 17:30 | | | |
| 07 | | 3 | REC | SSA | | 18:40 | | |
| | 2211 | | SSA | PLU | 19:00 | 20:31 | | |
| 08 | 2211 | 4 | PLU | CGH | 20:46 | 22:02 | | |
| 09 | 2200 | 1 | CGH | CGR | 22:27 | 23:55 | | |
| | CRAFT 1 | | FOR | Dan | 0.6.40 | 00 56 | | _ |
| 01 | 2315 | 1 | FOR | BSB | 06:40 | 08:56 | | |
| 02 | 2315 | 2 | BSB | CGH | 09:42 | 11:09 | | |
| 03 | 2236 | 1 | CGH | CGR | 11:45 | | _ | -1' 1' |
| 04 | 9999 | 1 | CGR | CGH | 13:44 | 14:57 | Ferry | Flight |
| 05 | 2140 | 1 | CGH | SDU | 15:52 | 16:59 | | |
| 06 | 2260 | 2 | SDU | BSB | 17:41 | 19:08 | | |
| 07 | 2287 | 1 | BSB | SDU | 19:41 | 21:10 | | |
| 08 | 2287 | 2 | SDU | CPQ | 21:32 | 22:32 | | |
| | CRAFT 1 | | 5.25 | | 07.40 | 00 10 | | _ |
| 01 | 2251 | 1 | BSB | GYN | 07:40 | 08:10 | | |
| 02 | 2251 | 2 | GYN | CGH | 08:30 | 09:57 | | |
| 03 | 2256 | 1 | CGH | NVT | 10:24 | 11:20 | | |
| 04 | 2257 | 1 | NVT | CGH | 15:05 | 16:06 | | |
| 05 | 2330 | 1 | CGH | GIG | 16:32 | 17:35 | | |
| 06 | 2330 | 2 | GIG | SSA | 18:00 | 19:50 | | |
| 07 | 2330 | 3 | SSA | REC | 20:10 | 21:25 | | |
| 08 | 2330 | 4 | REC | FOR | 21:45 | 23:00 | | |
| | CRAFT 1 | | | | | | | _ |
| 01 | 2112 | 1 | TVM | CGH | 07:40 | 08:37 | | |
| 02 | 2101 | 1 | CGH | CWB | 09:12 | 10:00 | | |
| 03 | 2242 | 1 | CWB | CGH | 10:30 | 11:18 | | |
| | | | | | | | | |

| 04 | 2242 | 2 | CGH | BSB | 11:50 | 13:20 | |
|--------|--------|-------|-----|-------|-------|-------|--------------|
| 05 | 2337 | 1 | BSB | CWB | 15:54 | 17:40 | |
| 06 | 2337 | 2 | CWB | POA | 18:00 | 19:00 | |
| 07 | 2104 | 1 | POA | FLN | 19:20 | 20:10 | |
| 08 | 2104 | 2 | FLN | CGH | 20:30 | 21:29 | |
| - AIRC | RAFT 1 | 7 ——— | | | | | |
| 01 | 2203 | 1 | PLU | SDU | 07:00 | 08:00 | |
| 02 | 2135 | 1 | SDU | CGH | 09:00 | 10:07 | |
| 03 | 2136 | 1 | CGH | SDU | 10:29 | 11:29 | + 3 min |
| 04 | 9999 | 1 | SDU | BSB | 12:02 | 13:27 | Ferry Flight |
| 05 | 9999 | 1 | BSB | BSB | 14:00 | 20:00 | |
| 06 | 2216 | 1 | BSB | REC | 20:53 | 23:30 | |
| - AIRC | RAFT 1 | 8 —— | | | | | |
| 01 | 2334 | 1 | POA | CWB | 07:20 | 08:20 | |
| 02 | 2334 | 2 | CWB | GIG | 08:40 | 10:00 | |
| 03 | 2100 | 3 | GIG | SSA | 10:30 | 12:29 | |
| 04 | 2285 | 1 | SSA | GIG | 16:00 | 17:59 | |
| 05 | 2285 | 2 | GIG | CGH | 18:30 | 19:27 | |
| 06 | 2326 | 1 | CGH | BSB | 20:06 | 21:41 | |
| | | | | | | | |
| - CANC | ELED - | | | | | | |
| 2237 | 1 | CGR | CGH | 16:30 | 18:03 | | |
| | | | | | | | |