Analysis
Synoptic forecast (48hr)
Data not available

Forecast date: Wed. 03/01, 00h (UTC)

Site: Cayman
Speed function: V10 speed_Holtslag_1
Deployment time: 12h (30.56km/h)

Deployment date (start)
Wed. 03/01, 12h
Thu. 04/01, 01h
07h
13h
19h
Fri. 05/01, 01h
07h
13h
19h
Sat. 06/01, 01h
07h
13h
19h
Sun. 07/01, 01h
07h
13h
19h
Mon. 08/01, 01h

Interrupt Time (h)
0 - 24 48 72 96 120 144 168 192 216 240

Percentage of all runs(%)
0% 1% 2% 3% 4% 5% 6% 7% 8% 9% 10%

Measurement time (h)
0 - 24 48 72 96 120 144 168 192 216 240

Minimum of pressure within 300km during measurement period (hPa)
900 920 940 960 980 1000 1020

Deepest minimum of pressure within 300km during measurement period (hPa)
900 920 940 960 980 1000 1020

Integrated RWI2 (m/s)
0 - 500 1000 1500 2000 2500 3000 3500

TC Central Pressure at interrupt time (hPa)
900 920 940 960 980 1000 1020

Minimum TC pressure during measurement period (hPa)
900 920 940 960 980 1000 1020

Wind at launch time (m/s)
0 2 4 6 8 10 12 14 16 18

Wed. 03/01, 13h (LT)

Maximum forward trajectory duration : 10 days
Interrupt distance: 300km
Interrupt RWI (RWI): 30km/h
Interrupt RWI (RWI): 60km/h

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Interception from Named cyclone
Interception from Tracheid
Interception from both
HRES

Percentage of flying balloon within a TC as a function of flight time
0% 12% 24% 36% 48% 60% 72% 84% 96% 108%

Named cyclone tracheid - Number of HPA centre crossed
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60°W 40°W 20°W
30°N 20°N 10°N

Landing within 24h DD
Landing within 48h DD
Landing within 72h DD
No landing within 120h DD
TPS deployment position
HRES (No landing)

Distance to the coast (km)
300 250 200 150 100 75 50 40 30 25 20 15 10 5 0

Flight time (h)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 33 36 39 42 45 48 72

Deployment date (start)
51 48 45 42 39 36 33 30 27 24 21 18 15 12 9 6 3 0

16°N 15°N 14.5°N
24°W 22°W 24°W 23.5°W 23°W

Wed. 03/01, 19h (LT)

Maximum forward trajectory duration : 10 days
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Interrupt RWI (RWI): 30km/h
Interrupt RWI (RWI): 60km/h

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Thu. 04/01, 07h (LT)

Maximum forward trajectory duration : 10 days
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Interrupt RWI (RWI): 60km/h

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Sun. 07/01, 01h (LT)

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Interrupt RWI (RWI): 60km/h

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Mon. 08/01, 01h (LT)

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