

# QQZ 1B STAR

## En Route Transition Data

Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
QQZ		IF		N22 19 58.20	E073 13 30.50							
AH379 WP	7.34	TF	FB	N22 21 22.33	E073 05 43.85	280.99	281.16					
AH369 WP	22.91	TF	FB	N22 34 55.32	E072 45 45.27	306.19	306.35	+7000				
AH367 WP	7.15	TF	FB	N22 39 59.62	E072 40 17.02	314.98	315.14	+5500	210			
AH364 WP	8.81	TF	FB	N22 46 12.42	E072 33 30.52	314.69	314.86					

## Runway Transition Data

Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AH364 WP		IF		N22 46 12.42	E072 33 30.52							
AH363 WP	5.00	TF	FB	N22 49 46.35	E072 29 42.40	315.34	315.50					

# APANO 1B STAR

## En Route Transition Data

Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
APANO		IF		N21 35 02.40	E072 58 57.68							
AH381 WP	40.90	TF	FB	N22 15 07.08	E072 49 28.14	347.57	347.73					
AH369 WP	20.03	TF	FB	N22 34 55.32	E072 45 45.27	350.12	350.28	+8500	250			
AH367 WP	7.15	TF	FB	N22 39 59.62	E072 40 17.02	314.98	315.14	7000				
AH367 WP	10.00	HF		N22 39 59.62	E072 40 17.02	314.98	315.14					
AH364 WP	8.81	TF	FB	N22 46 12.42	E072 33 30.52	314.69	314.86	5000	210			

## Runway Transition Data

Waypoint	Distance	Leg	FO/FB	Latitude	Longitude	TC	MC	Altitude	Speed	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
AH364 WP		IF		N22 46 12.42	E072 33 30.52							
AH363 WP	5.00	TF	FO	N22 49 46.35	E072 29 42.40	315.34	315.50					
	5.00	VM				314.83	315.00					