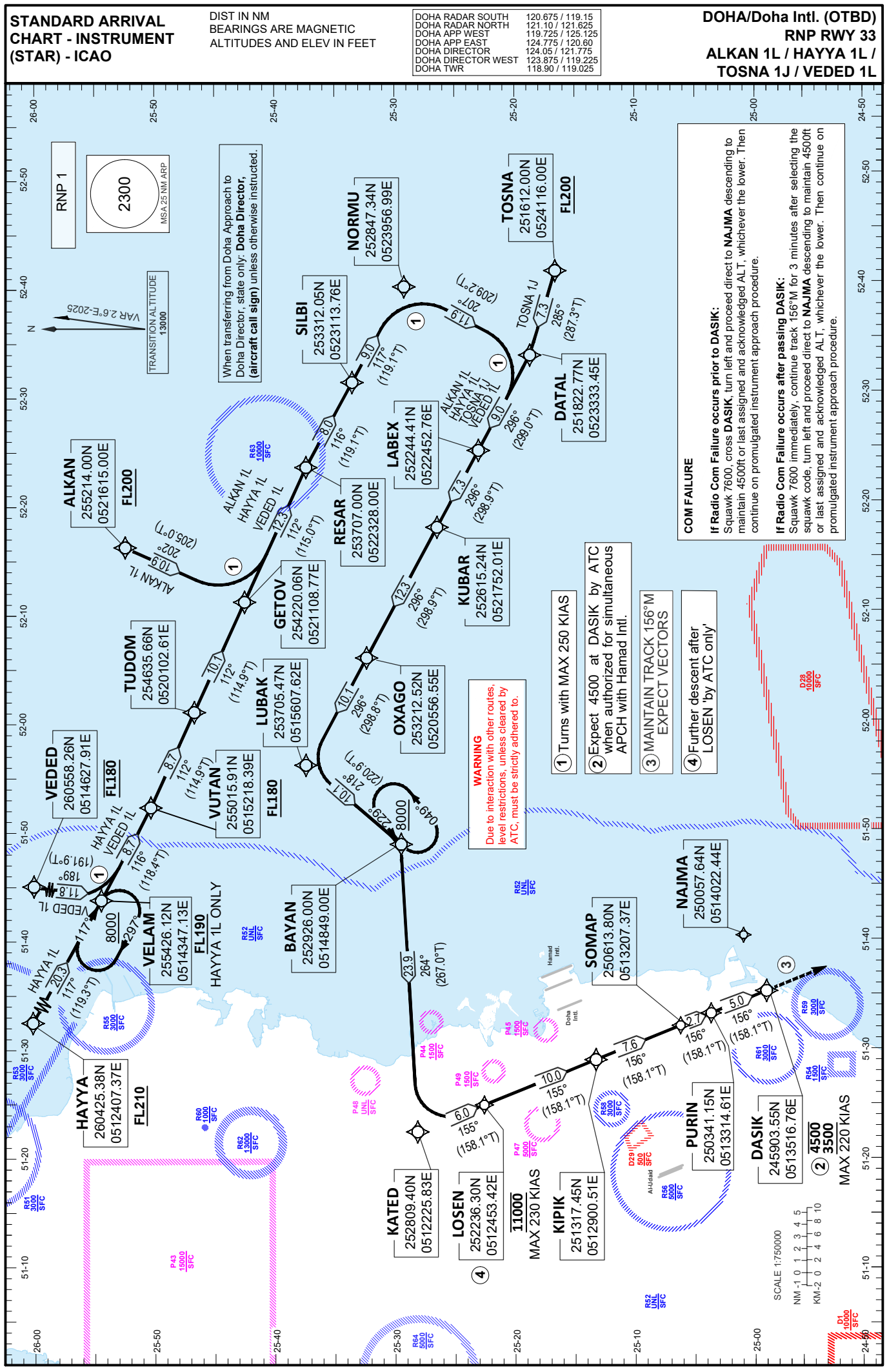
# STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

| | |
|---|---|
| DOHA RADAR SOUTH | 120.675 / 119.15 |
| DOHA RADAR NORTH | 121.10 / 121.625 |
| DOHA APP WEST | 119.725 / 125.125 |
| DOHA APP EAST | 124.775 / 120.60 |
| DOHA DIRECTOR | 124.05 / 121.775 |
| DOHA DIRECTOR WEST | 123.875 / 119.225 |
| DOHA TWR | 118.90 / 119.025 |

## DOHA/Doha Intl. (OTBD)
## RNP RWY 33
## ALKAN 1L / HAYYA 1L / TOSNA 1J / VEDED 1L



**STANDARD ARRIVAL**
**CHART - INSTRUMENT**
**(STAR) - ICAO**

**DOHA/Doha Intl.(OTBD)**
**RNP RWY 33**
**ALKAN 1L / HAYYA 1L / TOSNA 1J / VEDED 1L**

## TABULAR DESCRIPTION

**RNP STAR ALKAN 1L**

| Serial Num | Path Descriptor | Waypoint Identifier | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/ TCH(ft) | Navigation Specification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IF | ALKAN | - | - | -2.6 | - | - | +FL200 | - | - | RNP 1 |
| 2 | TF | GETOV | - | 202 (205.0) | -2.6 | 10.9 | - | - | -250 | - | RNP 1 |
| 3 | TF | RESAR | - | 112 (115.0) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 4 | TF | SILBI | - | 116 (119.1) | -2.6 | 8.0 | - | - | - | - | RNP 1 |
| 5 | TF | NORMU | - | 117 (119.1) | -2.6 | 9.0 | - | - | -250 | - | RNP 1 |
| 6 | TF | DATAL | - | 207 (209.2) | -2.6 | 11.9 | - | - | -250 | - | RNP 1 |
| 7 | TF | LABEX | - | 296 (299.0) | -2.6 | 9.0 | - | - | - | - | RNP 1 |
| 8 | TF | KUBAR | - | 296 (298.9) | -2.6 | 7.3 | - | - | - | - | RNP 1 |
| 9 | TF | OXAGO | - | 296 (298.9) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 10 | TF | LUBAK | - | 296 (298.8) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 11 | TF | BAYAN | - | 218 (220.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 12 | TF | KATED | - | 264 (267.0) | -2.6 | 23.9 | - | - | - | - | RNP 1 |
| 13 | TF | LOSEN | - | 155 (158.1) | -2.6 | 6.0 | - | @11000 | -230 | - | RNP 1 |
| 14 | TF | KIPIK | - | 155 (158.1) | -2.6 | 10.0 | - | - | - | - | RNP 1 |
| 15 | TF | SOMAP | - | 156 (158.1) | -2.6 | 7.6 | - | - | - | - | RNP 1 |
| 16 | TF | PURIN | - | 156 (158.1) | -2.6 | 2.7 | - | - | - | - | RNP 1 |
| 17 | TF | DASIK | - | 156 (158.1) | -2.6 | 5.0 | - | +3500/-4500 | -220 | - | RNP 1 |
| 18 | FM | DASIK | - | 156 (158.1) | -2.6 | - | - | - | -220 | - | RNP 1 |
| Remarks | | Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH. | | | | | | | | | |

**RNP STAR HAYYA 1L**

| Serial Num | Path Descriptor | Waypoint Identifier | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/ TCH(ft) | Navigation Specification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IF | HAYYA | - | - | -2.6 | - | - | +FL210 | - | - | RNP 1 |
| 2 | TF | VELAM | - | 117 (119.3) | -2.6 | 20.3 | - | +FL190 | - | - | RNP 1 |
| 3 | TF | VUTAN | - | 116 (118.4) | -2.6 | 8.7 | - | +FL180 | - | - | RNP 1 |
| 4 | TF | TUDOM | - | 112 (114.9) | -2.6 | 8.7 | - | - | - | - | RNP 1 |
| 5 | TF | GETOV | - | 112 (114.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 6 | TF | RESAR | - | 112 (115.0) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 7 | TF | SILBI | - | 116 (119.1) | -2.6 | 8.0 | - | - | - | - | RNP 1 |
| 8 | TF | NORMU | - | 117 (119.1) | -2.6 | 9.0 | - | - | -250 | - | RNP 1 |
| 9 | TF | DATAL | - | 207 (209.2) | -2.6 | 11.9 | - | - | -250 | - | RNP 1 |
| 10 | TF | LABEX | - | 296 (299.0) | -2.6 | 9.0 | - | - | - | - | RNP 1 |
| 11 | TF | KUBAR | - | 296 (298.9) | -2.6 | 7.3 | - | - | - | - | RNP 1 |
| 12 | TF | OXAGO | - | 296 (298.9) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 13 | TF | LUBAK | - | 296 (298.8) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 14 | TF | BAYAN | - | 218 (220.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 15 | TF | KATED | - | 264 (267.0) | -2.6 | 23.9 | - | - | - | - | RNP 1 |
| 16 | TF | LOSEN | - | 155 (158.1) | -2.6 | 6.0 | - | @11000 | -230 | - | RNP 1 |
| 17 | TF | KIPIK | - | 155 (158.1) | -2.6 | 10.0 | - | - | - | - | RNP 1 |
| 18 | TF | SOMAP | - | 156 (158.1) | -2.6 | 7.6 | - | - | - | - | RNP 1 |
| 19 | TF | PURIN | - | 156 (158.1) | -2.6 | 2.7 | - | - | - | - | RNP 1 |
| 20 | TF | DASIK | - | 156 (158.1) | -2.6 | 5.0 | - | +3500/-4500 | -220 | - | RNP 1 |
| 21 | FM | DASIK | - | 156 (158.1) | -2.6 | - | - | - | -220 | - | RNP 1 |
| Remarks | | Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH. | | | | | | | | | |


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**RNP STAR TOSNA 1J**

| Serial Num | Path Descriptor | Waypoint Identifier | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/ TCH(ft) | Navigation Specification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IF | TOSNA | - | - | -2.6 | - | - | +FL200 | - | - | RNP 1 |
| 2 | TF | DATAL | - | 285 (287.3) | -2.6 | 7.3 | - | - | - | - | RNP 1 |
| 3 | TF | LABEX | - | 296 (299.0) | -2.6 | 9.0 | - | - | - | - | RNP 1 |
| 4 | TF | KUBAR | - | 296 (298.9) | -2.6 | 7.3 | - | - | - | - | RNP 1 |
| 5 | TF | OXAGO | - | 296 (298.9) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 6 | TF | LUBAK | - | 296 (298.8) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 7 | TF | BAYAN | - | 218 (220.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 8 | TF | KATED | - | 264 (267.0) | -2.6 | 23.9 | - | - | - | - | RNP 1 |
| 9 | TF | LOSEN | - | 155 (158.1) | -2.6 | 6.0 | - | @11000 | -230 | - | RNP 1 |
| 10 | TF | KIPIK | - | 155 (158.1) | -2.6 | 10.0 | - | - | - | - | RNP 1 |
| 11 | TF | SOMAP | - | 156 (158.1) | -2.6 | 7.6 | - | - | - | - | RNP 1 |
| 12 | TF | PURIN | - | 156 (158.1) | -2.6 | 2.7 | - | - | - | - | RNP 1 |
| 13 | TF | DASIK | - | 156 (158.1) | -2.6 | 5.0 | - | +3500/-4500 | -220 | - | RNP 1 |
| 14 | FM | DASIK | - | 156 (158.1) | -2.6 | - | - | - | -220 | - | RNP 1 |
| Remarks | Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH. | | | | | | | | | | |

**RNP STAR VEDED 1L**

| Serial Num | Path Descriptor | Waypoint Identifier | Fly-over | Course °M(°T) | Magnetic Variation(°) | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kt) | VPA(°)/ TCH(ft) | Navigation Specification |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IF | VEDED | - | - | -2.6 | - | - | @FL180 | - | - | RNP 1 |
| 2 | TF | VELAM | - | 189 (191.9) | -2.6 | 11.8 | - | - | -250 | - | RNP 1 |
| 3 | TF | VUTAN | - | 116 (118.4) | -2.6 | 8.7 | - | +FL180 | - | - | RNP 1 |
| 4 | TF | TUDOM | - | 112 (114.9) | -2.6 | 8.7 | - | - | - | - | RNP 1 |
| 5 | TF | GETOV | - | 112 (114.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 6 | TF | RESAR | - | 112 (115.0) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 7 | TF | SILBI | - | 116 (119.1) | -2.6 | 8.0 | - | - | - | - | RNP 1 |
| 8 | TF | NORMU | - | 117 (119.1) | -2.6 | 9.0 | - | - | -250 | - | RNP 1 |
| 9 | TF | DATAL | - | 207 (209.2) | -2.6 | 11.9 | - | - | -250 | - | RNP 1 |
| 10 | TF | LABEX | - | 296 (299.0) | -2.6 | 9.0 | - | - | - | - | RNP 1 |
| 11 | TF | KUBAR | - | 296 (298.9) | -2.6 | 7.3 | - | - | - | - | RNP 1 |
| 12 | TF | OXAGO | - | 296 (298.9) | -2.6 | 12.3 | - | - | - | - | RNP 1 |
| 13 | TF | LUBAK | - | 296 (298.8) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 14 | TF | BAYAN | - | 218 (220.9) | -2.6 | 10.1 | - | - | - | - | RNP 1 |
| 15 | TF | KATED | - | 264 (267.0) | -2.6 | 23.9 | - | - | - | - | RNP 1 |
| 16 | TF | LOSEN | - | 155 (158.1) | -2.6 | 6.0 | - | @11000 | -230 | - | RNP 1 |
| 17 | TF | KIPIK | - | 155 (158.1) | -2.6 | 10.0 | - | - | - | - | RNP 1 |
| 18 | TF | SOMAP | - | 156 (158.1) | -2.6 | 7.6 | - | - | - | - | RNP 1 |
| 19 | TF | PURIN | - | 156 (158.1) | -2.6 | 2.7 | - | - | - | - | RNP 1 |
| 20 | TF | DASIK | - | 156 (158.1) | -2.6 | 5.0 | - | +3500/-4500 | -220 | - | RNP 1 |
| 21 | FM | DASIK | - | 156 (158.1) | -2.6 | - | - | - | -220 | - | RNP 1 |
| Remarks | Expect 4500ft at DASIK by ATC when authorized for simultaneous APCH with OTHH. | | | | | | | | | | |

## WAYPOINT LIST

**RNP STAR ALKAN 1L / HAYYA 1L / TOSNA 1J / VEDED 1L**

| Waypoint Identifier | Coordinates |
|---|---|
| ALKAN | 255214.00N 0521615.00E |
| GETOV | 254220.06N 0521108.77E |
| RESAR | 253707.00N 0522328.00E |
| SILBI | 253312.05N 0523113.76E |
| NORMU | 252847.34N 0523956.99E |
| DATAL | 251822.77N 0523333.45E |
| LABEX | 252244.41N 0522452.76E |
| KUBAR | 252615.24N 0521752.01E |
| OXAGO | 253212.52N 0520556.55E |
| LUBAK | 253705.47N 0515607.62E |
| BAYAN | 252926.00N 0514849.00E |
| KATED | 252809.40N 0512225.83E |

**RNP STAR ALKAN 1L / HAYYA 1L / TOSNA 1J / VEDED 1L**

| Waypoint Identifier | Coordinates |
|---|---|
| LOSEN | 252236.30N 0512453.42E |
| KIPIK | 251317.45N 0512900.51E |
| SOMAP | 250613.80N 0513207.37E |
| PURIN | 250341.15N 0513314.61E |
| DASIK | 245903.55N 0513516.76E |
| HAYYA | 260425.38N 0512407.37E |
| VELAM | 255426.12N 0514347.13E |
| VUTAN | 255015.91N 0515218.39E |
| TUDOM | 254635.66N 0520102.61E |
| TOSNA | 251612.00N 0524116.00E |
| VEDED | 260558.26N 0514627.91E |

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