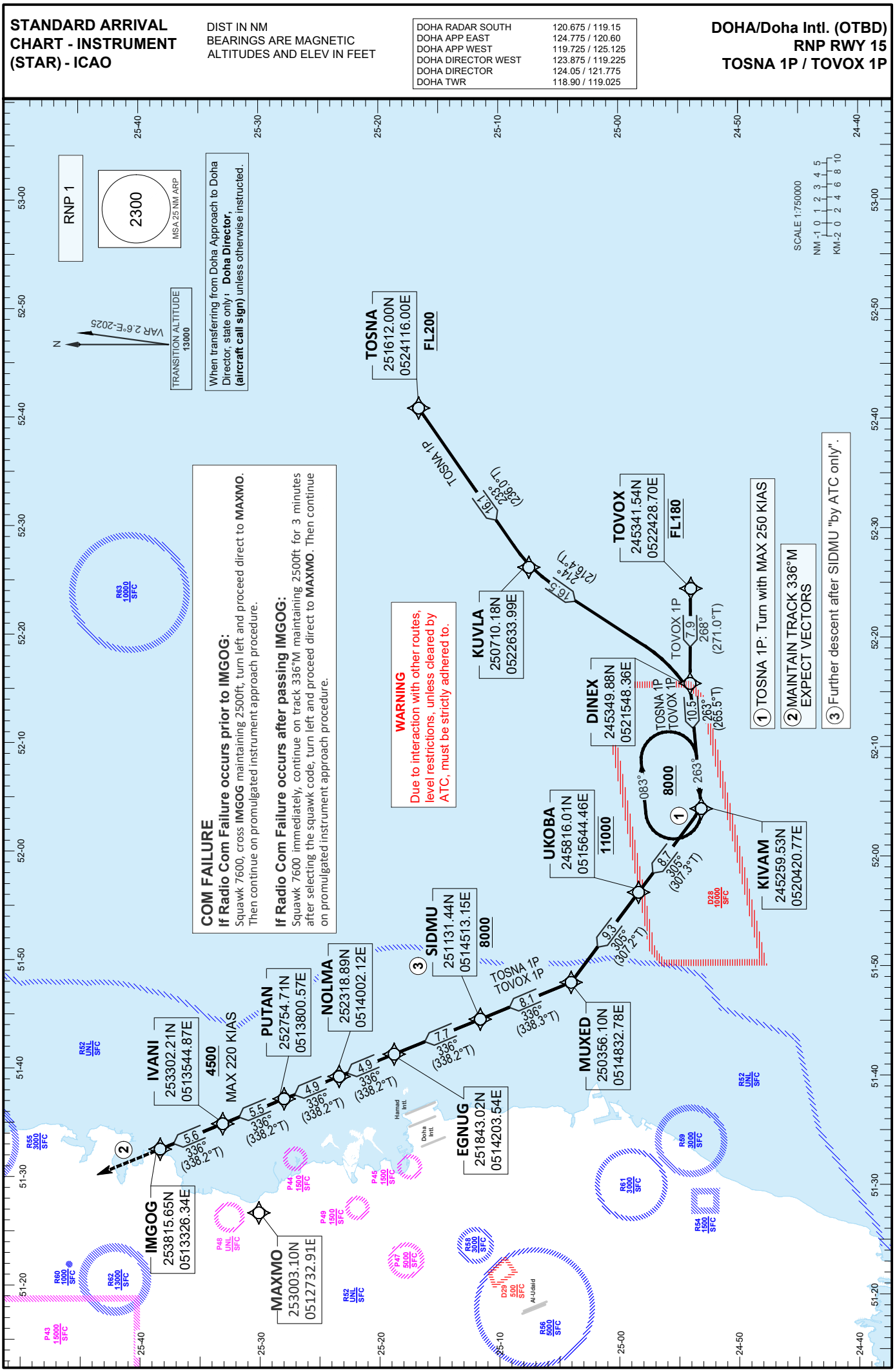
**STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO**

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

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

**DOHA/Doha Intl. (OTBD)**
**RNP RWY 15**
**TOSNA 1P / TOVOX 1P**



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

**DOHA/Doha Intl.(OTBD)**
**RNP RWY 15**
**TOSNA 1P / TOVOX 1P**

## TABULAR DESCRIPTION

**RNP STAR TOSNA 1P**

| 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 | KUVLA | - | 233 (236.0) | -2.6 | 16.1 | - | - | - | - | RNP 1 |
| 3 | TF | DINEX | - | 214 (216.4) | -2.6 | 16.5 | - | - | - | - | RNP 1 |
| 4 | TF | KIVAM | - | 263 (265.5) | -2.6 | 10.5 | - | - | -250 | - | RNP 1 |
| 5 | TF | UKOBA | - | 305 (307.3) | -2.6 | 8.7 | - | @11000 | - | - | RNP 1 |
| 6 | TF | MUXED | - | 305 (307.2) | -2.6 | 9.3 | - | - | - | - | RNP 1 |
| 7 | TF | SIDMU | - | 336 (338.3) | -2.6 | 8.1 | - | +8000 | - | - | RNP 1 |
| 8 | TF | EGNUG | - | 336 (338.2) | -2.6 | 7.7 | - | - | - | - | RNP 1 |
| 9 | TF | NOLMA | - | 336 (338.2) | -2.6 | 4.9 | - | - | - | - | RNP 1 |
| 10 | TF | PUTAN | - | 336 (338.2) | -2.6 | 4.9 | - | - | - | - | RNP 1 |
| 11 | TF | IVANI | - | 336 (338.2) | -2.6 | 5.5 | - | +4500 | -220 | - | RNP 1 |
| 12 | TF | IMGOG | - | 336 (338.2) | -2.6 | 5.6 | - | - | - | - | RNP 1 |
| 13 | FM | IMGOG | - | 336 (338.2) | -2.6 | - | - | - | - | - | RNP 1 |
| Remark | Further descent after SIDMU by ATC only | | | | | | | | | | |

**RNP STAR TOVOX 1P**

| 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 | TOVOX | - | - | -2.6 | - | - | @FL180 | - | - | RNP 1 |
| 2 | TF | DINEX | - | 268 (271.0) | -2.6 | 7.9 | - | - | - | - | RNP 1 |
| 3 | TF | KIVAM | - | 263 (265.5) | -2.6 | 10.5 | - | - | - | - | RNP 1 |
| 4 | TF | UKOBA | - | 305 (307.3) | -2.6 | 8.7 | - | @11000 | - | - | RNP 1 |
| 5 | TF | MUXED | - | 305 (307.2) | -2.6 | 9.3 | - | - | - | - | RNP 1 |
| 6 | TF | SIDMU | - | 336 (338.3) | -2.6 | 8.1 | - | +8000 | - | - | RNP 1 |
| 7 | TF | EGNUG | - | 336 (338.2) | -2.6 | 7.7 | - | - | - | - | RNP 1 |
| 8 | TF | NOLMA | - | 336 (338.2) | -2.6 | 4.9 | - | - | - | - | RNP 1 |
| 9 | TF | PUTAN | - | 336 (338.2) | -2.6 | 4.9 | - | - | - | - | RNP 1 |
| 10 | TF | IVANI | - | 336 (338.2) | -2.6 | 5.5 | - | +4500 | -220 | - | RNP 1 |
| 11 | TF | IMGOG | - | 336 (338.2) | -2.6 | 5.6 | - | - | - | - | RNP 1 |
| 12 | FM | IMGOG | - | 336 (338.2) | -2.6 | - | - | - | - | - | RNP 1 |
| Remark | Further descent after SIDMU by ATC only | | | | | | | | | | |

## WAYPOINT LIST

**RNP STAR TOSNA 1P / TOVOX 1P**

| Waypoint Identifier | Coordinates |
|---|---|
| TOSNA | 251612.00N 0524116.00E |
| KUVLA | 250710.18N 0522633.99E |
| DINEX | 245349.88N 0521548.36E |
| KIVAM | 245259.53N 0520420.77E |
| UKOBA | 245816.01N 0515644.46E |
| MUXED | 250356.10N 0514832.78E |
| SIDMU | 251131.44N 0514513.15E |
| EGNUG | 251843.02N 0514203.54E |
| NOLMA | 252318.89N 0514002.12E |
| PUTAN | 252754.71N 0513800.57E |
| IVANI | 253302.21N 0513544.87E |
| IMGOG | 253815.65N 0513326.34E |
| TOVOX | 245341.54N 0522428.70E |


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