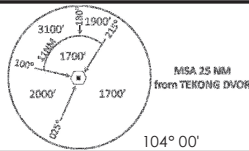


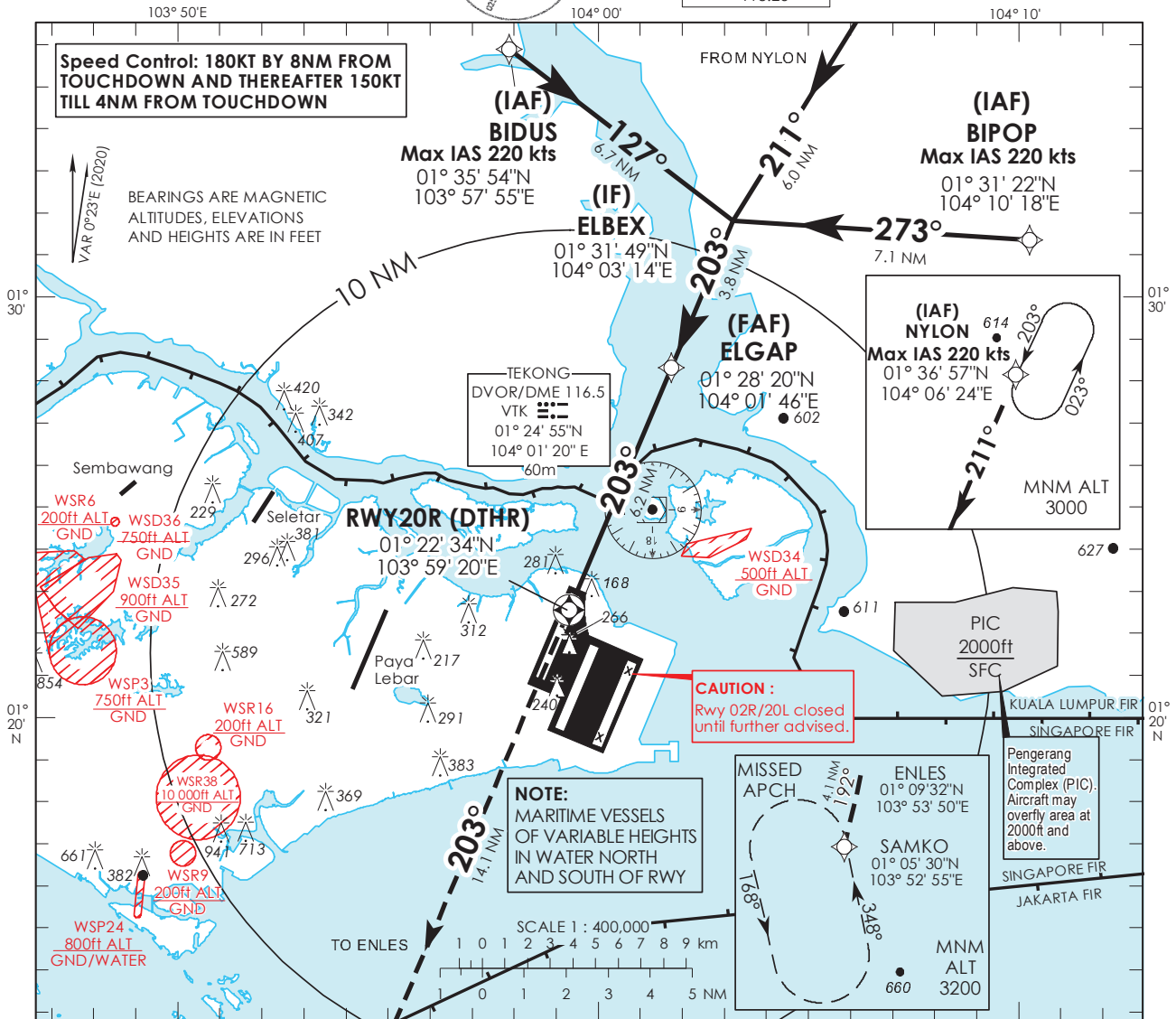
**INSTRUMENT
APPROACH
CHART - ICAO**

AERODROME ELEV 22ft
HEIGHT RELATED TO
DTHR RWY 20R - ELEV 13ft



| | | |
|--------|------------|---------|
| D-ATIS | AP ID WSSS | 128.025 |
| APP | | 124.05 |
| TWR | | 119.3 |
| | | 118.6 |
| | | 118.25 |

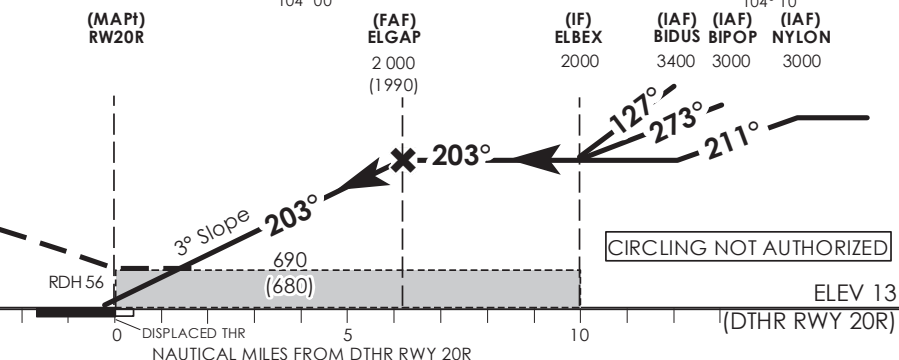
**SINGAPORE/
SINGAPORE CHANGI
RNP RWY 20R**



Transition Level : FL 130
Transition Alt : 11 000

MISSED APPROACH:
CLIMB DIRECT TO ENLES.
TURN LEFT TO SAMKO TO
JOIN THE HOLDING AT
3200FT OR ABOVE OR AS
DIRECTED BY ATC.

MINIMUM TEMPERATURE
FOR BARO-VNAV
APPROACHES: 5°C



| | | OCA (OCH) | | | | | | | |
|----------------------|---------|-------------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|
| Category of Aircraft | | A | B | C | D | | | | |
| LNAV/VNAV | 2.5% | 690 (680) | | | | | | | |
| LNAV | 2.5% | 690 (680) | | | | | | | |
| Fix | | BIDUS | NYLON | BIPOP | ELBEX | ELGAP | RW20R | ENLES | SAMKO |
| Altitude (Height) | | 3400 (3387) | 3000 (2987) | 3000 (2987) | 2000 (1987) | 2000 (1987) | 690 (680) | 2180 (2167) | 3200 (3187) |
| Speed | knots | 80 | 100 | 120 | 140 | 160 | 180 | | |
| FAF - MAPt 6.2 nm | min : s | 4 : 39 | 3 : 44 | 3 : 06 | 2 : 40 | 2 : 20 | 2 : 04 | | |
| Rate of descent/GS | ft/min | 425 | 531 | 637 | 743 | 849 | 955 | | |

SINGAPORE CHANGI RNP-APCH RWY 20R – Approach from BIDUS

| Path Terminator | Waypoint | Fly-Over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA/ TCH(FT) | Navigation Specification |
|-----------------|----------|----------|----------------|--------------------|---------------|----------------|---------------|------------------|--------------|--------------------------|
| IF | BIDUS | - | - | -0.4 | - | - | A034+ | 220 | - | RNP APCH |
| TF | ELBEX | - | 127 (127.4) | -0.4 | 6.7 | R | A020+ | - | - | RNP APCH |
| TF | ELGAP | - | 203 (203.4) | -0.4 | 3.8 | - | A020+ | - | - | RNP APCH |
| TF | RW20R | Y | 203 (203.4) | -0.4 | 6.2 | - | - | - | -3.0° / 50 | RNP APCH |
| DF | ENLES | - | - | -0.4 | - | L | - | - | - | RNP APCH |
| TF | SAMKO | - | 192 (192.4) | -0.4 | 4.1 | - | A032+ | - | - | RNP APCH |

SINGAPORE CHANGI RNP-APCH RWY 20R – Approach from NYLON

| Path Terminator | Waypoint | Fly-Over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA/ TCH(FT) | Navigation Specification |
|-----------------|----------|----------|----------------|--------------------|---------------|----------------|---------------|------------------|--------------|--------------------------|
| IF | NYLON | - | - | -0.4 | - | - | A030+ | 220 | - | RNP APCH |
| TF | ELBEX | - | 211 (211.4) | -0.4 | 6.0 | L | A020+ | - | - | RNP APCH |
| TF | ELGAP | - | 203 (203.4) | -0.4 | 3.8 | - | A020+ | - | - | RNP APCH |
| TF | RW20R | Y | 203 (203.4) | -0.4 | 6.2 | - | - | - | -3.0° / 50 | RNP APCH |
| DF | ENLES | - | - | -0.4 | - | L | - | - | - | RNP APCH |
| TF | SAMKO | - | 192 (192.4) | -0.4 | 4.1 | - | A032+ | - | - | RNP APCH |

SINGAPORE CHANGI RNP-APCH RWY 20R – Approach from BIPOP

| Path Terminator | Waypoint | Fly-Over | Course °M (°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed Limit (KT) | VPA/ TCH(FT) | Navigation Specification |
|-----------------|----------|----------|----------------|--------------------|---------------|----------------|---------------|------------------|--------------|--------------------------|
| IF | BIPOP | - | - | -0.4 | - | - | A030+ | 220 | - | RNP APCH |
| TF | ELBEX | - | 273 (273.4) | -0.4 | 7.1 | L | A020+ | - | - | RNP APCH |
| TF | ELGAP | - | 203 (203.4) | -0.4 | 3.8 | - | A020+ | - | - | RNP APCH |
| TF | RW20R | Y | 203 (203.4) | -0.4 | 6.2 | - | - | - | -3.0° / 50 | RNP APCH |
| DF | ENLES | - | - | -0.4 | - | L | - | - | - | RNP APCH |
| TF | SAMKO | - | 192 (192.4) | -0.4 | 4.1 | - | A032+ | - | - | RNP APCH |

Waypoint Coordinates

| Name | Latitude | Longitude |
|-------------|---------------|----------------|
| BIDUS (IAF) | 01° 35' 54" N | 103° 57' 55" E |
| NYLON (IAF) | 01° 36' 57" N | 104° 06' 24" E |
| BIPOP (IAF) | 01° 31' 22" N | 104° 10' 18" E |
| ELBEX (IF) | 01° 31' 49" N | 104° 03' 14" E |
| ELGAP (FAF) | 01° 28' 20" N | 104° 01' 46" E |
| RW20R | 01° 22' 34" N | 103° 59' 20" E |
| ENLES | 01° 09' 32" N | 103° 53' 50" E |
| SAMKO | 01° 05' 30" N | 103° 52' 55" E |