NAVIGATION REQUIREMENT: RNP 1

ALL DEPARTURES

Note 1: Minimum net climb gradient 3.3% (200 ft/NM) unless higher stated.

CAUTION: Close-in obstacles not considered in climb gradient
- Trees MAX 1086 ft AMSL 177°/750 m and 251°/70 m from CWY END

RWY 18
TOTRA THREE PAPA DEPARTURE – RNAV (GNSS) (TOTRA3P)
Minimum net climb gradient 5.9% (360 ft/NM) to 2200 ft
- Track 200° to MADRO (fly-over)
- Turn RIGHT, track 217° to TOTRA, MAX IAS 180 kt until turn complete
- Cross TOTRA at or below 4000 ft

TRANSITIONS:
ATC may require hold down at or above 7000 ft until IBAMU

LUMSO
- From TOTRA turn LEFT, track 120° to SURKA
- Turn LEFT, track 053° to LUMSO, MAX IAS 210 kt until turn complete

AKMAG
- From TOTRA turn LEFT, track 120° to SURKA
- Turn LEFT, track 082° to SABID, MAX IAS 210 kt until turn complete
- Turn RIGHT, track 162° to AKMAG

ISGIT/SUDAM
- From TOTRA turn LEFT, track 134° to ISGIT or SUDAM
- Turn RIGHT, track 162° to AKMAG

IBAMU
- From TOTRA turn LEFT, track 198° to IBAMU

Effective: 25 MAY 17

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ALL DEPARTURES

Note 1. Minimum net climb gradient 3.3% (200 ft/NM) unless higher stated.

CAUTION: Close-in obstacles not considered in climb gradient
- Trees MAX 1086 ft AMSL 177°/750 m and 251°/70 m from CWY END

RWY 18

ORAKA TWO PAPA DEPARTURE – RNAV (GNSS) (ORAKA2P)
Minimum net climb gradient 5.9% (360 ft/NM) to 2200 ft
- Track 200° to MADRO (fly-over)
- Turn RIGHT, track 217° to TOTRA, MAX IAS 180 kt until turn complete
- Cross TOTRA at or below 4000 ft
- Turn RIGHT, track 300° to ORAKA,
  MAX IAS 220 kt until turn complete

TRANSITIONS:
- ATC may require hold down
  - At or above 5000 ft until FALLS
  - At or above 4000 ft until GOBUK

FALLS
- From ORAKA turn RIGHT, track 325° to FALLS

KAMLA
- From ORAKA turn RIGHT, track 331° to KAMLA

GOBUK
- From ORAKA turn RIGHT, track 012° to GOBUK

At or above 4000 ft until FALLS
At or above 5000 ft until FALLS
ATC may require hold down
TRANSITIONS:
MAX IAS 220 kt until turn complete
Track RIGHT, track 300° to ORAKA,
Cross TOTRA at or below 4000 ft
Turn RIGHT, track 217° to TOTRA, MAX IAS 180 kt until turn complete
Track 200° to MADRO (fly-over)
Minimum net climb gradient 5.9% (360 ft/NM) to 2200 ft
RNAV (GNSS) (ORAKA2P)

NZRO AD 2 - 62.4
AIP New Zealand

CHRISTCHURCH CONTROL: 119.5 123.8 TOWER: 121.2 120.1 ATIS: 128.8 UNATTENDED: 121.2

Effective: 25 MAY 17

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