



Doc No.: HKVACC-SOP005-ANNEX-1-R3 Date Issued: 05 OCT 2024
Subject: Hong Kong En-route Control Airspace Standard Operating Procedures Annex I

STANDARD OPERATING PROCEDURE (SOP)

**DOCUMENT NUMBER:** HKVACC-SOP005-ANNEX-I

DATE ISSUED: 05 OCT 2024

**REVISION: 3** 

SUBJECT: Hong Kong En-route Control Standard Operating Procedures Annex I

**EFFECTIVE DATE: 05 OCT 2024** 

**SCOPE:** Outlines standard techniques for online ATC service provided by controllers staffing Area Radar positions within Hong Kong FIR.





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#### 1. PURPOSE

1.1. This Standard Operating Procedure (SOP) sets forth the procedures for all controllers providing en-route air traffic control service within the Hong Kong FIR to improve communication, techniques, and to distinguish procedures that are specific to the online environment.

#### 2. ROLES AND RESPONSIBILITIES

2.1. The Office of Primary Responsibility (OPR) for this SOP is the team under the supervision of the Facilities Director. This SOP shall be maintained, revised, updated or cancelled by the Facilities Director. Any suggestions for modification / amendment to this SOP should be sent to the Facilities Director for review.

#### 3. DISTRIBUTION

3.1. This SOP is intended for controllers staffing Area Radar positions within Hong Kong FIR, as well as other controllers who interface with Area Radar controllers.

#### 4. BACKGROUND

4.1. Due to the complexity of sectorisation within Area Radar airspace, a supplementary document is required to support HKVACC-SOP005 so that controllers can have a clear idea on the responsibilities of different sectors within Area Radar airspace. This would also facilitate the coordination between controllers through standardising certain air traffic management strategies.

#### 5. INFORMATION ON HANDOFF AGREEMENTS

5.1. For handoff agreements, an up arrow ↑ indicates that aircraft are to be transferred whilst still climbing to that altitude, while a down arrow ↓ indicates that aircraft are to be transferred whilst descending to that altitude. Agreements with no arrows indicates that aircraft are to be transferred at the exact altitude specified in the agreement. Agreements are only valid when aircraft are flying the correct route as listed in the Hong Kong AIP. Other traffic shall be individually coordinated. Controllers shall note that there are no handoff agreements for transit traffic not landing at airports located near the boundary of Hong Kong FIR. Thus, this traffic shall be individually coordinated.

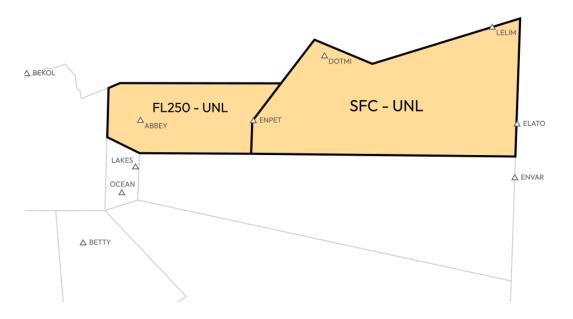




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## 6. AREA RADAR EAST ARRIVALS (TRK)

- 6.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRK -> TRE -> TRS -> TRW
- 6.2. Area Radar East Arrivals Sector



### 6.3. Responsibilities

- Arrivals from DOTMI, LELIM and ELATO
- Departures to DOTMI, LELIM and ELATO
- Transit Traffic to/from DOTMI and ELATO

### 6.4. Procedures (Inbound)

• Descend arrivals to appropriate levels and transfer to TME

#### 6.5. Procedures (Outbound)

- DOTMI, LELIM Climb aircraft to metric RFL after handoff from TRE (if applicable)
- ELATO Climb aircraft to RFL (if applicable)





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### 6.6. Handoff Agreements

### From Taipei FIR to Area Radar East Arrivals (TRK)

То	Altitude	Handoff Location
Hong Kong FIR	Westbound 6000ft or	ELATO
TIONS RONS FIR	above	LLAIO

### From Shanghai CTA to Area Radar East Arrivals (TRK)

То	Altitude	Handoff Location
VHHH	FL300	LELIM
VHHH, VMMC	FL280, FL300	DOTMI
Hong Kong FIR	FL280, FL300, FL360,	DOTMI
TIONS RONS TIK	FL380	DOTIVII

### From Xiamen CTA to Area Radar East Arrivals (TRK)

То	Altitude	Handoff Location
Hong Kong FID	S0660 (FL217), S0720	DOTMI
Hong Kong FIR	(FL236), S0780 (FL256)	DOTIVII

### From Shantou TMA to Area Radar East Arrivals (TRK)

То	Altitude	Handoff Location
Hong Kong FIR	S0420 (FL138)	DOTMI

### From Area Radar East (TRE) to Area Radar East Arrivals (TRK)

From	Altitude	Handoff Location
VHHH, VHHX, VMMC (DOTMI,	↑ RFL	Soctor Poundary
LELIM, ELATO)	KFL	Sector Boundary

### From Area Radar East Arrivals (TRK) to Taipei FIR

То	Altitude	Handoff Location
Taipei FIR	Odd FLs at or below FL270	ELATO (note)

Note: This is an external agreement with VATROC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Taipei FIR when initiating a handoff per this agreement.





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### From Area Radar East Arrivals (TRK) to Shanghai CTA

То	Altitude	Handoff Location
Shanghai FIR	FL330, FL350	LELIM (note)
Shanghai FIR	S0810 (FL266), FL330,	DOTMI (note)
	FL350, FL390	

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Shanghai FIR when initiating a handoff per this agreement.

#### From Area Radar East Arrivals (TRK) to Xiamen CTA

То	Altitude	Handoff Location
ZSAM, ZSQZ, ZSFZ, ZSWY, ZSWZ	S0630 (FL207), S0750 (FL246)	DOTMI (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Shanghai FIR when initiating a handoff per this agreement.

### From Area Radar East Arrivals (TRK) to Shantou TMA

То	Altitude	Handoff Location
ZGOW	S0450 (FL148)	DOTMI (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Shanghai FIR when initiating a handoff per this agreement.

#### From Area Radar East Arrivals (TRK) to Terminal Radar East (TME)

То	Altitude	Handoff Location
VHHH	FL260	ENPET
VHHX	FL270	Abeam ENPET (note)
VMMC, ZGGG	FL260	After SAMMI

Note: VHHX MAGOG13 arrivals are not laterally separated against VHHH ABBEY arrivals. Controllers shall use vertical separation where required.



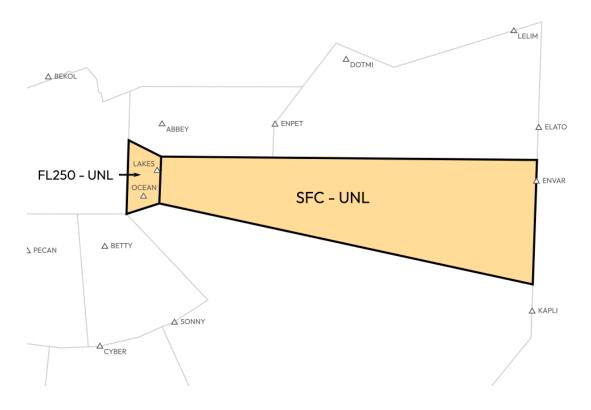


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## 7. AREA RADAR EAST (TRE)

- 7.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRE -> TRS -> TRW

#### 7.2. Area Radar East Sector



### 7.3. Responsibilities

- Departures to DOTMI, LELIM, ELATO and ENVAR
- Arrivals from ELATO via TTR V525

## 7.4. Procedures (Inbound)

• Separate arrivals via V525 and transfer to TRS

## 7.5. Procedures (Outbound)

- Climb ENVAR and ELATO departures to RFL
- Climb DOTMI and LELIM departures to metric RFL prior to SOUSA / BESDA





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## 7.6. Handoff Agreements

## From Departure (DEP) to Area Radar East (TRE)

From	Altitude	Handoff Location
VHHH, VMMC (ELATO, ENVAR)	↑ FL250	OCEAN
VHHH, VMMC (DOTMI, LELIM)	↑ FL170, ↑ FL230	LAKES (note)
VHHX (DOTMI, ELATO, ENVAR)	↑ FL250	Abeam/At KILOG

Note: Aircraft with RFL below S0690 (FL226) shall be climbed to FL170, whilst aircraft with RFL above S0690 (FL226) shall be climbed to FL230.

## From Area Radar South (TRS) to Area Radar East (TRE)

From	Altitude	Handoff Location
VMMC, ZGSZ, ZGGG (DOTMI, ELATO, ENVAR)	↑ RFL	Sector Boundary

#### From Area Radar East (TRE) to Area Radar East Arrivals (TRK)

From	Altitude	Handoff Location
VHHH, VHHX, VMMC (DOTMI,	↑ RFL	Sactor Boundary
LELIM, ELATO)	KFL	Sector Boundary

### From Area Radar East (TRE) to Taipei FIR

То	Altitude	Handoff Location
Taipei FIR	FL270, Eastbound RVSM FLs, FL450, FL490	ENVAR (note)

Note: This is an external agreement with VATROC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Taipei FIR when initiating a handoff per this agreement.



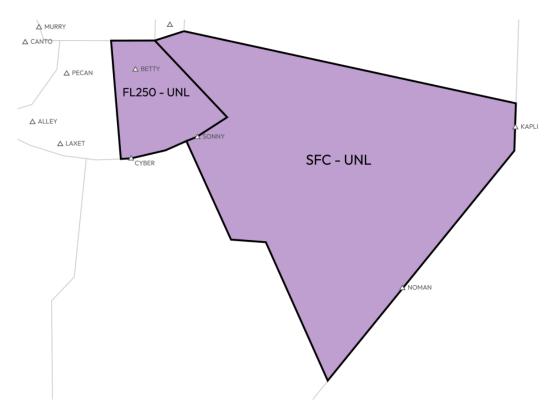


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## 8. AREA RADAR SOUTH (TRS)

- 8.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRS -> TRW

#### 8.2. Area Radar South Sector



### 8.3. Responsibilities

- Departures to NOMAN, SABNO and KAPLI
- Arrivals from NOMAN
- Transit Traffic to/from KAPLI

#### 8.4. Procedures (Inbound)

• Descend arrivals to appropriate levels and transfer to TMS

### 8.5. Procedures (Outbound)

Climb NOMAN, SABNO and KAPLI departures to RFL





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### 8.6. Handoff Agreements

### From Departure (DEP) to Area Radar South (TRS)

From	Altitude	Handoff Location
ZGSZ, VHHH, VMMC (NOMAN, SABNO, KAPLI)	↑ FL250	OCEAN
VHHX (NOMAN1A, NOMAN1B, SABNO1A)	↑ FL250	Abeam OCEAN

#### From Terminal Departures Central (TDC) to Area Radar South (TRS)

From	Altitude	Handoff Location
ZGSZ, VMMC (DOTMI, LELIM,	FL160	On approaching FL160 (nota)
ELATO, ENVAR, NOMAN, SABNO)	FL160	On approaching FL160 (note)

Note: ZGSZ and VMMC departures will enter Terminal Radar South airspace. Coordination shall be performed with TMS to prevent conflicts with VHHH arrivals.

### From Area Radar South (TRS) to Taipei FIR

То	Altitude	Handoff Location
Taipei FIR	FL290, FL330, FL370, FL390, FL410	KAPLI (note)

Note: This is an external agreement with VATROC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Taipei FIR when initiating a handoff per this agreement.

### From Area Radar South (TRS) to Manila FIR

То	Altitude	Handoff Location
Manila FIR	FL290, FL330, FL370, FL410	NOMAN (note)

Note: This is an external agreement with VATPHIL. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Manila FIR when initiating a handoff per this agreement.

### From Area Radar South (TRS) to Area Radar East (TRE)

From	Altitude	Handoff Location
VMMC, ZGSZ, ZGGG (DOTMI,	↑ RFL	Sector Boundary
ELATO, ENVAR)	NFL	Sector Boundary





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## From Area Radar South (TRS) to Area Radar Central (TRC)

From	Altitude	Handoff Location
VHHH, VMMC, VHHX, ZGSZ,	Λ DEI	Sector Doundan
ZGGG (SABNO)	↑ RFL	Sector Boundary

## From Area Radar South (TRS) to Terminal Radar South (TMS)

То	Altitude	Handoff Location
VHHH	FL260	SONNY
VHHX	FL250	Abeam SONNY



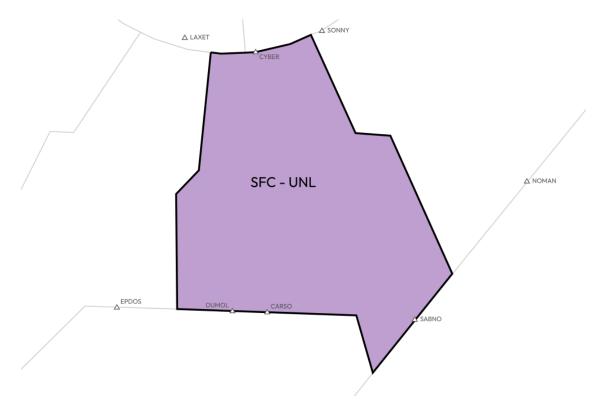


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## 9. AREA RADAR CENTRAL (TRC)

- 9.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRC -> TRS -> TRW

#### 9.2. Area Radar Central Sector



### 9.3. Responsibilities

- Departures to SABNO
- Arrivals from SABNO, ASOBA and DOSUT
- Transit Traffic to/from SABNO, ASOBA and DOSUT

### 9.4. Procedures (Inbound)

Descend arrivals to appropriate levels and transfer to TMS / TDC

#### 9.5. Procedures (Outbound)

• Climb SABNO departures to RFL (if applicable)





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#### 9.6. Handoff Agreements

#### From Manila FIR to Area Radar Central (TRC)

То	Altitude	Handoff Location
Hong Kong FIR	FL300, FL340, FL380	SABNO

### From Area Radar West (TRD) to Area Radar Central (TRC)

То	Altitude	Handoff Location
VHHH	RFL	CARSO
VHHX, ZGSZ, ZGGG, VMMC	RFL	DUMOL

## From Terminal Radar South (TMS) to Area Radar Central (TRC)

From	Altitude	Handoff Location
VHHX	FL250	† On approaching FL250

### From Area Radar Central (TRC) to Manila FIR

То	Altitude	Handoff Location
Manila FIR	FL290, FL330, FL370, FL410	SABNO (note)

Note: This is an external agreement with VATPHIL. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Manila FIR when initiating a handoff per this agreement.

### From Area Radar Central (TRC) to Terminal Radar South (TMS)

То	Altitude	Handoff Location
VHHH	FL260	CYBER
VHHX	FL250	Abeam CYBER

### From Area Radar Central (TRC) to Terminal Departures Central (TDC)

То	Altitude	Handoff Location
ZGGG	FL260	ISBAN
VHHX	FL250	Abeam ISBAN
VMMC	FL200	ISBAN



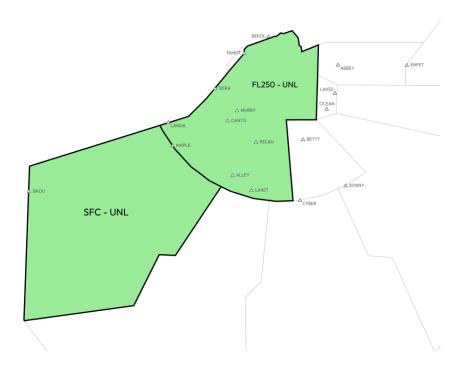


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## 10. AREA RADAR WEST (TRW)

- 10.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRW

#### 10.2. Area Radar West Sector



## 10.3. Responsibilities

- Departures to SIKOU
- Arrivals from SIKOU and IKELA
- Transit Traffic to/from SIKOU
- Transit Traffic from SIERA

### 10.4. Procedures (Inbound)

Descend arrivals to appropriate levels and transfer to TMW

### 10.5. Procedures (Outbound)

- Climb SIKOU departures to RFL
- Climb SIERA transit aircraft to RFL





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#### 10.6. Handoff Agreements

### From Guangzhou CTA to Area Radar West (TRW)

То	Altitude	Handoff Location
VHHX	FL280	TAMOT (note)
Hong Kong FIR	Metric Westbound RVSM	TAMOT
	FLs at or above S0840	
	(FL276)	

Note: Lower altitudes may be used by coordination for direct handoff to Hong Kong Approach.

## From Sanya CTA to Area Radar West (TRW)

From	Altitude	Handoff Location
ZJSY	S0810 (FL266), S0890	SIKOU
	(FL291)	SIKOU
Sanya CTA (A202)	Metric Eastbound RVSM	
	FLs at or above S1010	SIKOU
	(FL331)	

## From Nanning CTA to Area Radar West (TRW)

From	Altitude	Handoff Location
ZJHK, ZJQH	S0630 (FL207)	SIKOU

### From Zhanjiang TMA to Area Radar West (TRW)

From	Altitude	Handoff Location
Zhanjiang TMA	S0570 (FL187)	SIKOU

## From Area Radar West (TRV) to Area Radar West (TRW)

То	Altitude	Handoff Location
ZGSZ, VHHH, VHHX, VMMC	RFL	Sector Boundary

## From Terminal Radar West (TMW) to Area Radar West (TRW)

From	Altitude	Handoff Location
VHHX (IDOSI1B)	↑ FL250	On approaching FL250





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#### From Terminal Departures Central (TDC) to Area Radar West (TRW)

From	Altitude	Handoff Location
ZGSZ, VHHH, VHHX, VMMC	↑ FL250	ALLEY (note)
(SIKOU)	FL250	ALLET (HOLE)

Note: VHHX departures will infringe the Terminal Radar West airspace boundary. Coordination shall be performed with TMW to prevent conflicts.

### From Area Radar West (TRW) to Guangzhou CTA

То	Altitude	Handoff Location
Guangzhou FIR	Metric Eastbound RVSM	BEKOL (note)
	FLs at or above S0890	
	(FL291)	

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.

### From Area Radar West (TRW) to Sanya CTA

То	Altitude	Handoff Location
ZJSY	S0840 (FL276)	SIKOU (note)
Sanya CTA (A202)	Metric Westbound RVSM FLs at or above S0980 (FL321)	SIKOU (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.

### From Area Radar West (TRW) to Nanning CTA

То	Altitude	Handoff Location
ZJHK, ZJQH	S0660 (FL217), S0720 (FL236)	SIKOU (note)
ZGNN, ZGBH	S0720 (FL236), S0780 (FL256)	SIKOU (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.





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### From Area Radar West (TRW) to Zhanjiang TMA

То	Altitude	Handoff Location
ZGZJ	S0600 (FL197)	SIKOU (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.

# From Area Radar West (TRW) to Area Radar South (TRS)

From	Altitude	Handoff Location
ZGGG (to ELATO, ENVAR,	↑ RFL	Castar Baundan
NOMAN, SABNO)	KFL	Sector Boundary

### From Area Radar West (TRW) to Area Radar West (TRV)

From	Altitude	Handoff Location
ZGGG (to IDOSI, EPDOS)	↑ RFL	ALLEY

### From Area Radar West (TRW) to Terminal Radar West (TMW)

То	Altitude	Handoff Location
VHHH	FL260	MAPLE
VHHX	FL250	Abeam MAPLE (note)

Note: VHHX IDOSI13 arrivals will infringe Terminal Departures Central airspace near GOBBI. Coordination shall be performed with TDC to prevent conflicts.

#### From Area Radar West (TRW) to Terminal Departures Central (TDC)

То	Altitude	Handoff Location
ZGGG	FL260	CHALI

#### From Area Radar West (TRW) to Macau Approach Radar (MCU)

То	Altitude	Handoff Location
VMMC, ZGSZ	FL120	COTON



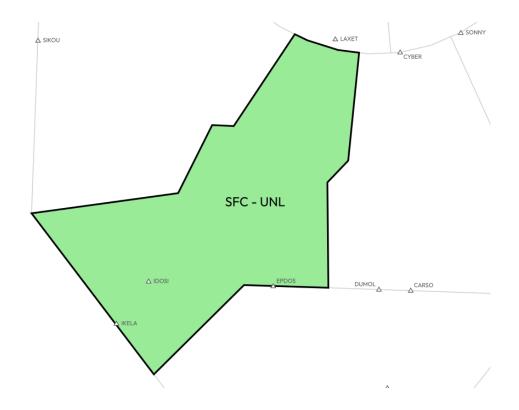


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## 11. AREA RADAR WEST (TRV)

- 11.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRV -> TRW

#### 11.2. Area Radar West Sector



### 11.3. Responsibilities

- Departures to IKELA and EPDOS
- Arrivals from IKELA
- Transit Traffic to/from IKELA

### 11.4. Procedures (Inbound)

• Separate arrivals via IKELA and transfer to TRW

#### 11.5. Procedures (Outbound)

- Climb IKELA and EPDOS departures to RFL
- Transfer EPDOS departures to TRD at EPDOS





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### 11.6. Handoff Agreements

## From Sanya CTA Oceanic to Area Radar West (TRV)

From	Altitude	Handoff Location
Sanya CTA	Eastbound RVSM FLs	IKELA

### From Terminal Radar West (TMW) to Area Radar West (TRV)

From	Altitude	Handoff Location
VHHX (EPDOS1A, IDOSI1A,	↑ FL250	On approaching FL2FO
SIKOU1A)	FL250	On approaching FL250

## From Terminal Departures Central (TDC) to Area Radar West (TRV)

From	Altitude	Handoff Location
ZGSZ, VHHH, VHHX, VMMC	↑ FL250	ALLEY/LAXET (note)
(IDOSI, EPDOS)	1.1233	712217270121 (11313)

Note: ZGSZ and VMMC departures will enter Terminal Radar South airspace. Coordination shall be performed with TMS to prevent conflicts with VHHH arrivals.

### From Area Radar West (TRW) to Area Radar West (TRV)

From	Altitude	Handoff Location
ZGGG (to IDOSI, EPDOS)	↑ RFL	ALLEY

### From Area Radar West (TRV) to Sanya CTA Oceanic

То	Altitude	Handoff Location
Sanya CTA (IKELA)	Westbound RVSM FLs	IKELA (note)

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.

### From Area Radar West (TRV) to Area Radar West (TRD)

То	Altitude	Handoff Location
Sanya CTA (EPDOS)	RFL	EPDOS





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## From Area Radar West (TRV) to Area Radar Central (TRC)

То	Altitude	Handoff Location
ZGGG	RFL	Sector Boundary

# From Area Radar West (TRV) to Area Radar West (TRW)

То	Altitude	Handoff Location
ZGSZ, VHHH, VHHX, VMMC	RFL	Sector Boundary



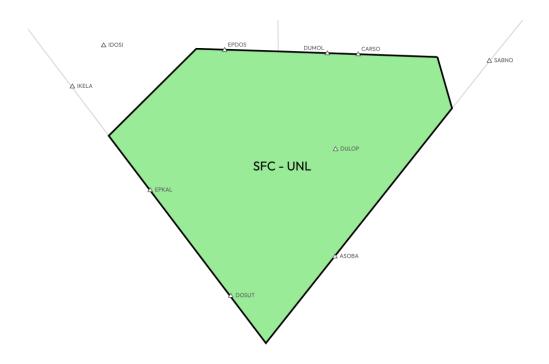


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## 12. AREA RADAR WEST (TRD)

- 12.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRD -> TRV -> TRW

#### 12.2. Area Radar West Sector



## 12.3. Responsibilities

- Departures to EPDOS (EPKAL)
- Arrivals from ASOBA/DOSUT
- Transit Traffic from ASOBA/DOSUT

### 12.4. Procedures (Inbound)

• Separate aircraft via ASOBA/DOSUT and transfer to TRC

### 12.5. Procedures (Outbound)

• Climb EPDOS (EPKAL) departures to RFL (if applicable)





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#### 12.6. Handoff Agreements

From Sanya Control (SYO) to Area Radar West (TRD)

From	Altitude	Handoff Location
	FL270, FL310, FL320,	
Sanya CTA	FL350, FL360, FL390,	DOSUT
	FL400	

#### From Manila FIR to Area Radar West (TRD)

From	Altitude	Handoff Location
Manila FIR	FL300, FL380	ASOBA

### From Area Radar West (TRV) to Area Radar West (TRD)

То	Altitude	Handoff Location
Sanya CTA (EPKAL)	↑ RFL	EPDOS

### From Area Radar West (TRD) to Sanya CTA Oceanic

То	Altitude	Handoff Location
	FL280, FL310, FL320,	
Sanya CTA (EPKAL)	FL350, FL360, FL390,	EPKAL (note)
	FL400	

Note: This is an external agreement with VATPRC. As such, internal handoff releases are not applicable to this agreement and controllers shall adhere to the LoA between Hong Kong FIR and Sanya FIR when initiating a handoff per this agreement.

### From Area Radar West (TRD) to Area Radar Central (TRC)

То	Altitude	Handoff Location
VHHH	RFL	CARSO
VHHX, ZGSZ, ZGGG, VMMC	RFL	DUMOL



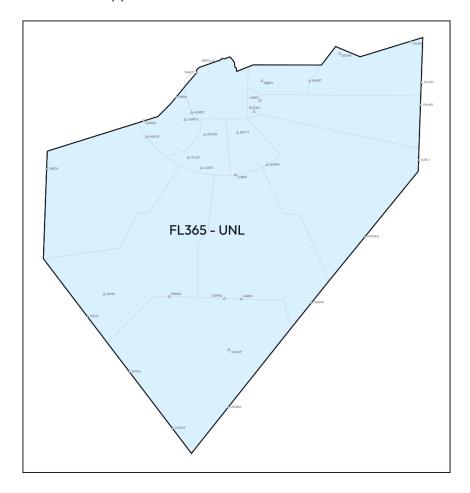


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## 13. AREA RADAR UPPER (TRU)

- 13.1. Airspace Ownership Priority (Positions on the left have priority over positions on the right)
  - TRU -> TRW

#### 13.2. Area Radar Upper Sector



### 13.3. Responsibilities

High-level Traffic within Hong Kong FIR

#### 13.4. Procedures

• Separate traffic in the higher levels. Where needed, coordinate with individual lower sectors for aircraft climbing / descending into lower airspace. Specific details on coordination with TRU may be found in SOP005.

### 13.5. Handoff Agreements

13.5.1. Refer to lower sectors.





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### **RECORD OF REVISION**

DATE	REV.	REVISION CONTENT	APPROVAL
03 APR 2024	0	Initial Release	T. SIU
23 APR 2024	1	Updated agreements to align with SOP004 ANNEX I	T. SIU
09 JUN 2024	2	Updated agreed handoff levels to match VATPRC LOA	T. SIU
		Revision 1	
05 OCT 2024	3	Updated Area Radar West sector naming	T. SIU
		Renamed Terminal Radar South Departures to	
		Terminal Departures Central	