



## 2 Areas of Responsibility and Sectorization.

### 2.1 Areas of Responsibility.

The lateral and vertical limits of the respective areas of responsibility are as follows:

#### 2.1.1 EDWW.

##### 2.1.1.1 Bremen ACC.

Lateral limits: As described in AIP Germany  
Vertical limits: GND – FL285

##### 2.1.1.2 Karlsruhe UAC.

Lateral limits: As described in AIP Germany  
Vertical limits: FL285 – FL660

#### 2.1.2 EPWW.

Lateral limits: As described in AIP Poland  
Vertical limits: GND – FL660

### 2.2 Sectorization.

Sector charts: see Appendix A - F

For detailed coordinates and sector ownerships refer to GNG, AIP Germany or AIP Poland.

#### 2.2.1 Bremen FIR.

Sector	Logon	Frequency
Berlin Arrival North (DBAN)	EDDB_N_APP	119.630
Berlin Arrival South (DBAS)	EDDB_S_APP	126.425
Berlin Departure South (DBDS)	EDDB_S_DEP	120.630
Mueritz (MRZ)	EDWW_M_CTR	124.175
Mark (MAR)	EDWW_K_CTR	136.050
Flaeming (FLG)	EDWW_F_CTR	136.450
Ostsee Low (OSE1)	EDUU_O_CTR	133.035
Havel Low (HVL1)	EDUU_H_CTR	128.235
Ostsee High (OSE2)	EDUU_OH_CTR	126.785
Havel High (HVL2)		

#### 2.2.2 Warszawa FIR.

Sector	Logon	Frequency
EPSC TMA	EPSC_TWR	121.255
EPWW-B	EPWW_B_CTR	127.025
EPWW-D	EPWW_D_CTR	134.225
EPWW-U	EPWW_U_CTR	130.625

## **2.3 Delegation of the Responsibility for the Provision of ATS.**

### **2.3.1 Delegation of ATS from EDWW to EPWW.**

Not applicable.

### **2.3.2 Delegation of ATS from EPWW to EDWW.**

#### **2.3.2.1 Heringsdorf CTR.**

The airspace of Heringsdorf CTR (EDAH) is permanently delegated from Warszawa FIR to Bremen FIR.

Lateral Limits: see Appendix F

Vertical Limits: GND - 2500 ft AMSL

Airspace Classification: D.

## **2.4 Special Areas.**

### **2.4.1 ALUKA Release Line.**

The ALUKA Release Line is established to reduce the release requests by Karlsruhe UAC for traffic crossing through Warszawa ACC sector B in the area of ALUKA.

Lateral Limits: see Appendix G

Traffic planned via M725, N33, T299 or FRA on direct tracks at least 2.5 NM west of the ALUKA Release Line shall be released by Warszawa ACC sector B to Karlsruhe UAC sector OSE.

Traffic planned via L132-BODLA or similar routing may be cleared direct BODLA with regard to sector boundary of Warszawa ACC sector D. This traffic is released of right turns.

Karlsruhe UAC shall be responsible for separation to known traffic proceeding via Warszawa ACC sector B.

Warszawa ACC sector B shall coordinate traffic (e.g. military traffic) unknown to Karlsruhe UAC coming closer than 2.5 NM east of ALUKA Release Line.

The use of the ALUKA Release Line can be terminated anytime by Warszawa ACC on short notice.

### **2.4.2 ARSAP Overflow Area.**

During high traffic load of EDWW ACC sector FLG, the ARSAP Overflow Area may be activated.

Whenever this area is active, coordination and transfers of flights transiting through this area between EDWW ACC sector FLG and EPWW sector D shall be accomplished between EDWW ACC sector DBDS and EPWW ACC sector D directly.

Lateral Limits: see Appendix H

Vertical Limits: FL165-FL235

EDWW ACC sector FLG will inform EPWW ACC sector D about activation and deactivation of the ARSAP Overflow Area

### 3 Procedures for Coordination.

#### 3.1 Definitions.

A release is an authorization for the accepting ATS unit to climb, descend and/or turn (by no more than 45°) a specific aircraft before the transfer of control point. The transferring ATS unit remains responsible for separation within its Area of Responsibility unless otherwise agreed.

Wherever VATSIM callsigns are used to describe the terms of a certain procedure, this procedure is also applicable for all higher stations that take over the responsibilities of said station. E.g., procedures for an APP-stations are also applicable for the respective CTR station fulfilling the duties of said APP station.

The use of VATSIM callsigns in this document includes any variation of said callsign. E.g., any procedure applicable for EDWW\_CTR may also be used by EDWW\_X\_CTR or EDWW\_1\_CTR.

#### 3.2 Abbreviations.

ACC	Area Control Center	kts	Knots
AD	Aerodrome	LoA	Letter of Agreement
ADEP	Aerodrome of Departure	LoR	Line of Responsibility
ADES	Aerodrome of Destination	NM	Nautical Mile
AoR	Area of Responsibility	NVFR	Night Visual Flight Rules
APP	Approach Facility	RFL	Requested Flight Level
ATS	Air Traffic Services	Rlsd	Released
COP	Coordination Point	SSR	Secondary Surveillance
CTR	Center/Enroute Facility	Radar	
FIR	Flight Information Region	TMA	Terminal Manoeuvring Area
FIS	Flight Information Service	UAC	Upper Area Control Center
FL	Flight Level	VFR	Visual Flight Rules
GND	Ground	WEF	With Effect From
GNG	Global Nav Generator		
	<a href="http://gng.aero-nav.com">gng.aero-nav.com</a>		

#### 3.3 General Conditions.

Coordination of flights shall take place via the agreed coordination points (COP).

Coordinated flights shall be handed off via a valid COP. Any deviation shall be coordinated verbally, by text or by Euroscope inter-sector coordination.

Traffic shall be handed off at the levels, defined in the regulations below. If a specified level restriction cannot be met due to a lower RFL, traffic shall be handed off at RFL, if this does not cause a conflict with any other traffic. Otherwise, traffic shall be coordinated.

If a traffic situation is not covered herein or closely matching a covered one, individual coordination between the concerned sectors shall be made.

After Transfer of communications, traffic is NOT released for climb, descent or turns until Transfer of control or otherwise specified in this Letter of Agreement.

↓FLxxx / ↑FLxxx means „descending / climbing to a specified FL“, without any further restriction. Any required crossing/speed restriction shall be added separately. At level means that the aircraft shall be in level flight on a published flight level and in accordance with east/west odd/even policy.

FLxxxA means “climbing and above specified FL”, FLxxxB means “descending and below specified FL”.

### 3.4 IFR flights from EDWW to EPWW.

#### 3.4.1 Arrivals.

Arrival AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EPSC	FARCU	FL130	(*1)	MRZ	EPSC TMA
EPSC	BODLA	FL130	(*1)	MAR	EPSC TMA
EPKS, EPPW	ALUKA	FL250		MAR	B
EPKS, EPPW, EPZG	SUBIX	FL250		FLG	D
EPPO, EPZG	ARSAP	FL210	If ARSAP Overflow Area is inactive	FLG	D
EPPO, EPZG	ARSAP	FL210	If ARSAP Overflow Area is active	DBDS	D
EPPO, EPKS, EPPW, EPZG	GOVEN	FL170		FLG	D

(\*1) Note: EDWW ACC shall handover aircraft inbound EPSC at least 15 NM prior reaching sector boundary. Traffic is released for descent and turns.

#### 3.4.2 Departures.

Departure AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EDAH	BINKA	FL090		MRZ	EPSC TMA
EDBN	BINKA	FL150		MRZ	B
ETNL, EDBH	BINKA	↑FL270		MRZ	B
EDDB	BODLA	↑FL230-FL270	(*1)	MAR	B
EDAY	BODLA	FL190		MAR	B
EDDB	ALUKA	↑FL170-FL230	(*1)	MAR	B
EDAY	ALUKA	FL130		DBAN	B
EDAZ	ALUKA	↑FL230-FL270	(*1)	MAR	B
ETNL, EDBH	ALUKA	FL270		MAR	B
EDDC, EDAB, EDAC, EDAZ, EDBM	SUBIX	FL270		FLG	D
EDAZ	ARSAP	↑FL230-FL270	(*1)	FLG	D
EDDB	ARSAP	↑FL170-FL230	(*1) If ARSAP Overflow Area is inactive	FLG	D
EDDB	ARSAP	↑FL170-FL230	(*1) If ARSAP Overflow Area is active	DBDS	D
EDDC, EDAB, EDDP	GOVEN	↑FL230-FL270	(*1)	FLG	D

(\*1) Note: EDWW ACC will use different FLs to ensure separation between aircraft departing from different runways or departure airports.

### 3.5 IFR flights from EPWW to EDWW.

#### 3.5.1 Arrivals.

Arrival AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
ETNL	BINKA	FL280		B	MRZ
EDBN	BINKA	FL160		B	MRZ
EDAH	BINKA	FL100		EPSC TMA	MRZ
EDDB	PESEL	FL240	RWYs 06 (*1)	B	MAR
EDDB	PESEL	FL200	RWYs 24 (*1)	B	MAR
ETNL	BODLA	FL280		B	MAR
EDAY	BODLA	FL160	(*1)	B	MAR
EDAZ	BODLA	FL280	(*1)	B	MAR
EDDB	BODLA	FL220	RWYs 06 (*1)	B	MAR
EDDB	BODLA	FL180	RWYs 24 (*1)	B	MAR
EDAY	ALUKA	FL100	(*1)	B	DBAN
ETNL	ALUKA	FL280		B	MAR
EDDP, EDDC, EDAB, EDAC, EDBM, EDVE, ETNL	SUBIX	FL280		D	FLG
EDDP, EDDE	GOVEN	FL280		D	FLG
EDDC, EDAB, EDAC	GOVEN	FL220		D	FLG
EDDB	GOVEN	FL180	RWYs 06 (*1)	D	FLG
EDDB	GOVEN	FL120	RWYs 24 (*1)	D	DBAS
EDAZ	GOVEN	FL120	(*1)	D	DBAS

(\*1) Note: EPWW ACC shall hand over aircraft inbound EDDB/AY/AZ at least 20 NM prior reaching sector boundary. All aircraft are released for descent, turns and speed control.

#### 3.5.2 Departures.

Departure AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EPSC	BINKA	FL120		EPSC TMA	MRZ
EPSC	PESEL	FL120		EPSC TMA	MAR
EPPO, EPZG	SUBIX	FL240		D	FLG

### 3.6 IFR flights from EDUU to EPWW.

#### 3.6.1 Arrivals.

Arrival AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EPZG	BINKA	FL330		OSE	B
EPPO	BINKA	FL330		OSE	B
EPBY	ALUKA	FL330		OSE	B
EPPO	ALUKA	FL290		OSE	B
EPWR, EPBY	GILAS	FL330		HVL	D
EPWR, EPBY	SUBIX	FL330		HVL	D
EPPO	SUBIX	FL290		HVL	D
EPWR, EPBY	GOVEN	FL330		HVL	D

#### 3.6.2 Departures.

Departure AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EKCH, EKRK, ESMS	BINKA	FL350	Or below	OSE	B
EDAZ	BODLA	FL330	Or below	OSE	B
EDDP	SUBIX	FL330	Or below	HVL	D

### 3.7 IFR flights from EPWW to EDUU.

#### 3.7.1 Arrivals.

Arrival AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EKCH, EKRK, ESMS	BINKA	FL320		B	OSE
EDAZ	PESEL	FL340		B	OSE

#### 3.7.2 Departures.

Departure AD	COP	Level Allocation	Special Conditions	From Sector	To Sector
EPPO	XIGRI	FL300		D	HVL

### **3.8 VFR flights from EDWW to EPWW.**

For controlled VFR flights and NVFR flights above 2500 feet GND coordination, transfer of control and transfer of communication shall take place as for IFR flights. Uncontrolled VFR flights shall be transferred to the appropriate sector if in radio contact. If online, EPPO\_I\_APP (Poznan Information), 126.300 / EPGD\_I\_APP (Gdansk Information), 127.150 shall be the primary sector for uncontrolled VFR flights. If EPPO\_I\_APP / EPGD\_I\_APP is offline, EPWW\_I\_CTR (Warszawa Information), 134.175, will cover this area.

Area around Poznan TMA:

EPPO\_I\_APP (Poznan Information) - 126.300

Area around Szczecin TMA and further north:

EPGD\_I\_APP (Gdansk Information) - 127.150

If Poznan Information and/or Gdansk Information is offline:

EPWW\_I\_CTR (Warszawa Information) - 134.170

### **3.9 VFR flights from EPWW to EDWW.**

For controlled VFR flights and NVFR flights above 2500 feet GND coordination, transfer of control and transfer of communication shall take place as for IFR flights. Uncontrolled VFR flights shall be transferred to the appropriate sector if in radio contact. If online, EDXX\_WW\_CTR (Langen Information), 119.525, shall be the primary sector for uncontrolled VFR flights. If EDXX\_WW\_CTR is offline, EDXX\_FIS\_CTR (Langen Information), 128.950, will cover this area.

### **3.10 Change of Runway Direction.**

EDWW ACC sector FLG shall inform EPWW sector D about the change of runway-in-use at EDDB. EPWW ACC sector D shall forward this information to EPWW ACC sector B.



## 4 Special Procedures.

### 4.1 IFR traffic at EDAH.

Due to the crossing of the German-Polish border for IFR flights at EDAH departing runway 10 or arriving runway 28, the following procedures shall be applied:

- Bremen ACC sector MRZ shall inform EPSC Tower about every IFR departure from runway 10 prior take-off clearance.
- Bremen ACC sector MRZ shall inform EPSC Tower about every IFR arrival to runway 28 at least 5 minutes prior reaching IAF UDAXI.

All IFR movements at EDAH crossing the German-Polish border shall remain on published procedures only. EPSC Tower is responsible to keep own traffic clear from published procedures at EDAH in case of coordinated IFR movements.

### 4.2 IFR traffic via ALUKA.

Bremen ACC shall be responsible to establish separation between flights on L619-ALUKA, GERGA DCT ABSAG DCT ALUKA and GILAS DCT RENKI.

### 4.3 Tactical Directs.

#### 4.3.1 EPWW.

Waypoint	From Sector	Special Conditions
EEL	EPWW ACC/UAC	Track north of ALUKA
TAGOB		
NEBUN		
BUMIL		
HLZ		
POVEL		Track north of ARSAP
NORKU		
RKN		

#### 4.3.2 EDWW.

Waypoint	From Sector	Special Conditions
ALUKA	EDWW	
BODLA		

#### 4.3.3 EDUU.

Waypoint	From Sector	Special Conditions
GORPI	EDUU OSE/HVL	
KUNER		
RANOK		
GOMED		
OSKUD		
POLON		
RATOR		DES EPGD
KOSEX		
DOSIX		DES EPMO
BIMPA		DES EPWA

#### 4.4 **Airspace crossing EDUU.**

Whenever EDUU sectors OSE/HVL are online a release for airspace crossing needs to be requested by EPWW ACC for EDWW FIR outbounds with a RFL above FL285. This is due to departing traffic being unknown to EDUU UAC. A Topsy release only applies within the upstream sector and not for any additional sectors (e.g. EDUU sectors OSE/HVL). This procedure especially applies to EDDB departures via BODLA.

The following verbal/text coordination shall be used:

*“Approval request for airspace crossing [callsign] inbound [waypoint].”*

A climb above FL280 can only be issued with approval from EDUU, if EDUU is online. In case EDUU is offline, this coordination is not necessary and Topsy releases apply both to upper and lower airspace.

## **5 Transfer of Control and Transfer of Communication.**

### **5.1 Transfer of Control.**

Transfer of Control shall take place at the AoR boundary.

If the downstream sector in EuroScope is set to >.break<, the procedure 5.4 is suspended and transfer of communication can only take place after the downstream sector has assumed the flight via the appropriate function of the radar client.

If it becomes necessary to reduce or suspend transfers, a 5-minute prior notification is required.

When transfers are suspended, the hand-off procedure (5.4) is suspended.

### **5.2 Silent transfer of control.**

The following values for silent transfer of control apply:

- If preceding aircraft is faster: 10 NM
- If succeeding aircraft is faster by 20kts / M0.05 or less: 20 NM
- If succeeding aircraft is faster by 40kts / M0.1 or less: 30 NM

### **5.3 Transfer of Communications.**

Transfer of Communications shall take place no later than Transfer of Control.

### **5.4 Hand-Off procedure.**

Unless otherwise agreed between stations online, the following hand-off procedure shall apply:

1. The upstream sector sends the aircraft to the frequency of the downstream sector by voice or text.
2. The upstream sector initiates a transfer via the appropriate function of the radar client.
3. Upon initial call the downstream sector assumes the flight via the appropriate function of the radar client.

### **5.5 SSR Code Assignment.**

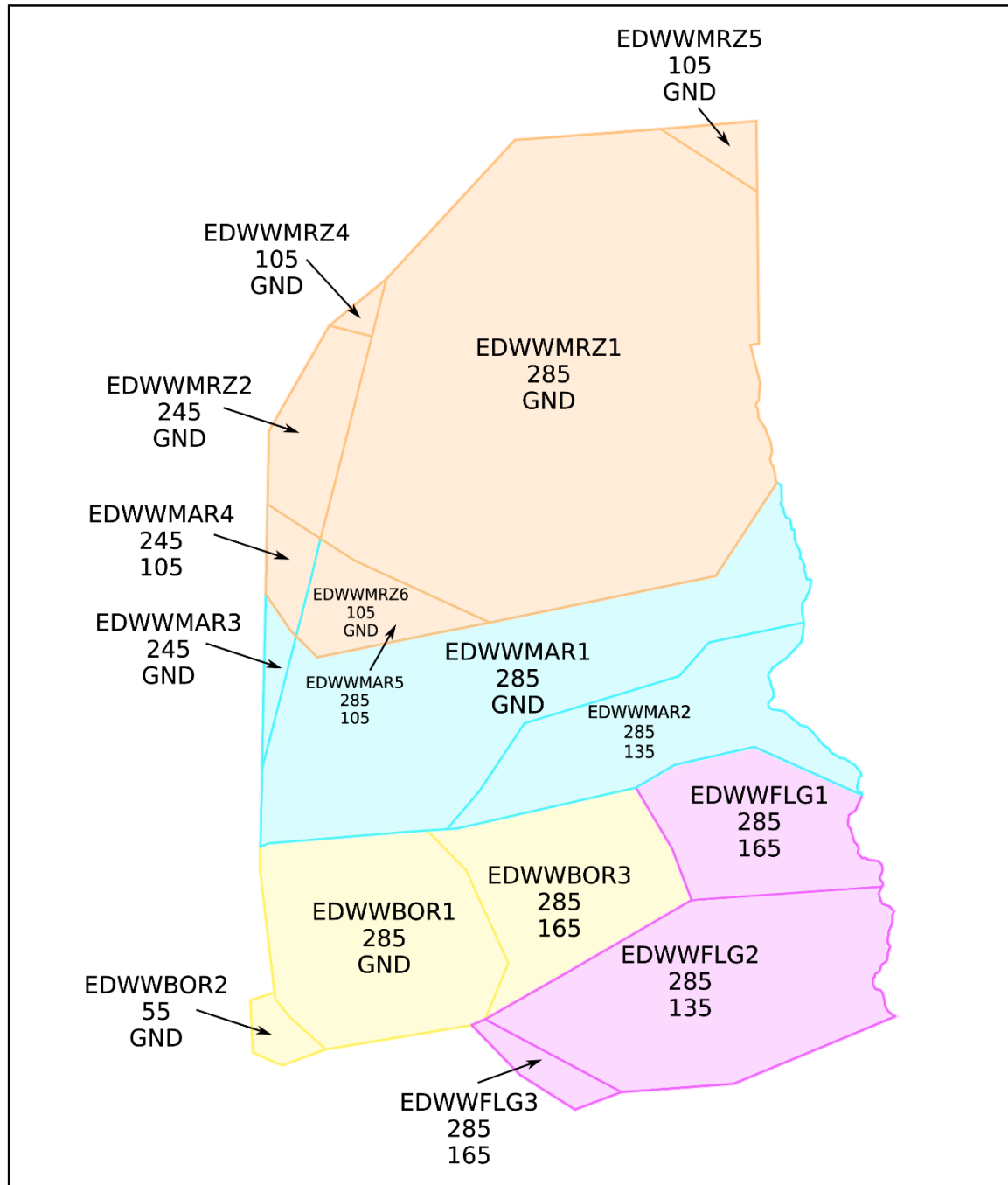
Both ATS units shall transfer flights on verified discrete SSR codes. Any change of SSR code by the accepting ATS unit may only take place after the transfer of control point.

## Appendix A

For flight simulator use only. Not to be used for real world flight.

# VATSIM Germany

## Sectors EDWW EBG Ost

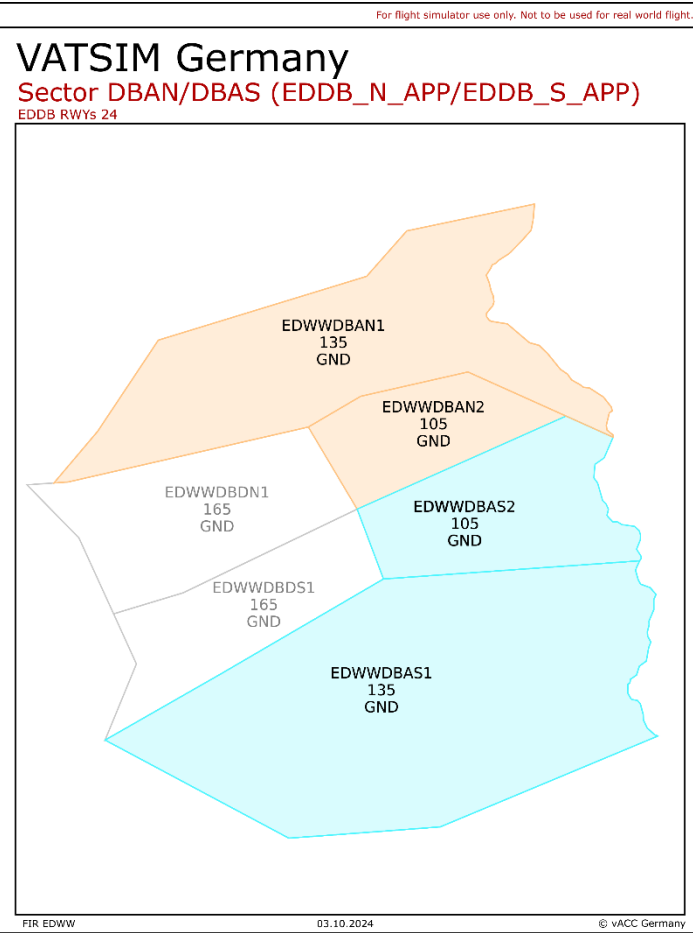
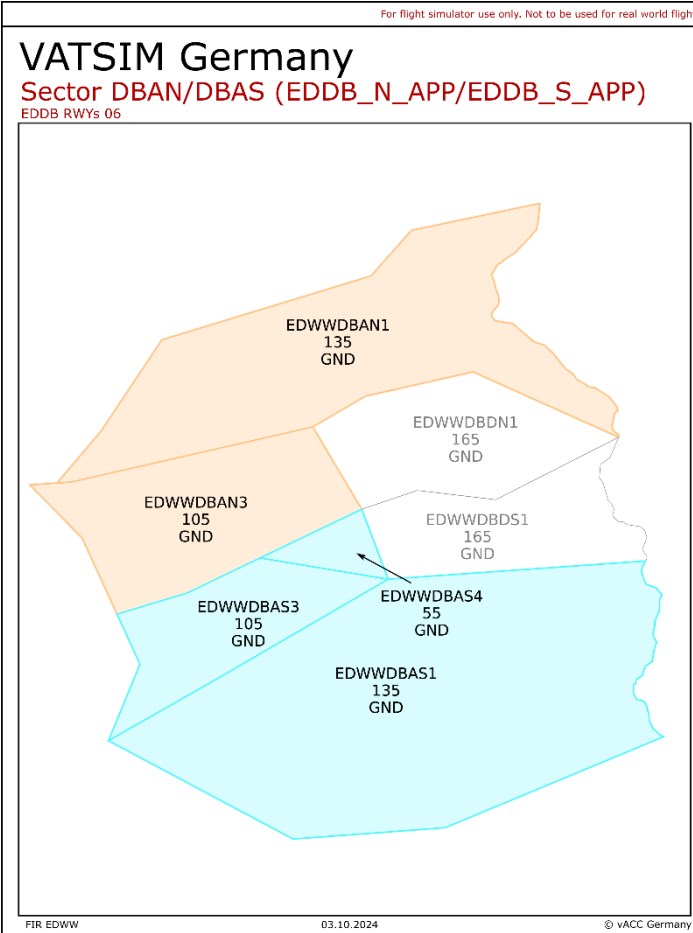


FIR EDWW

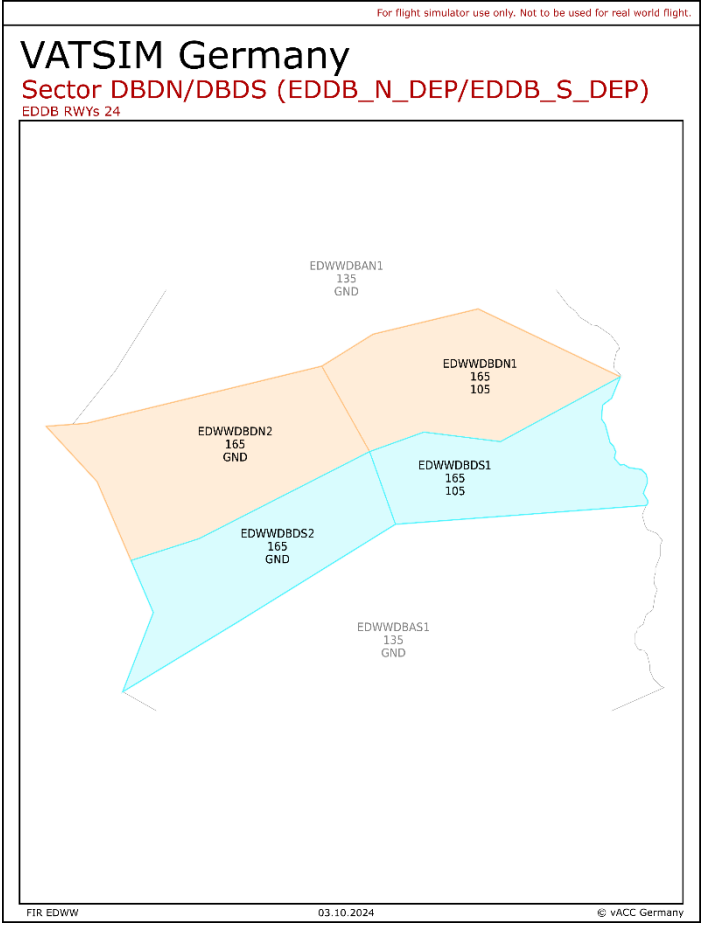
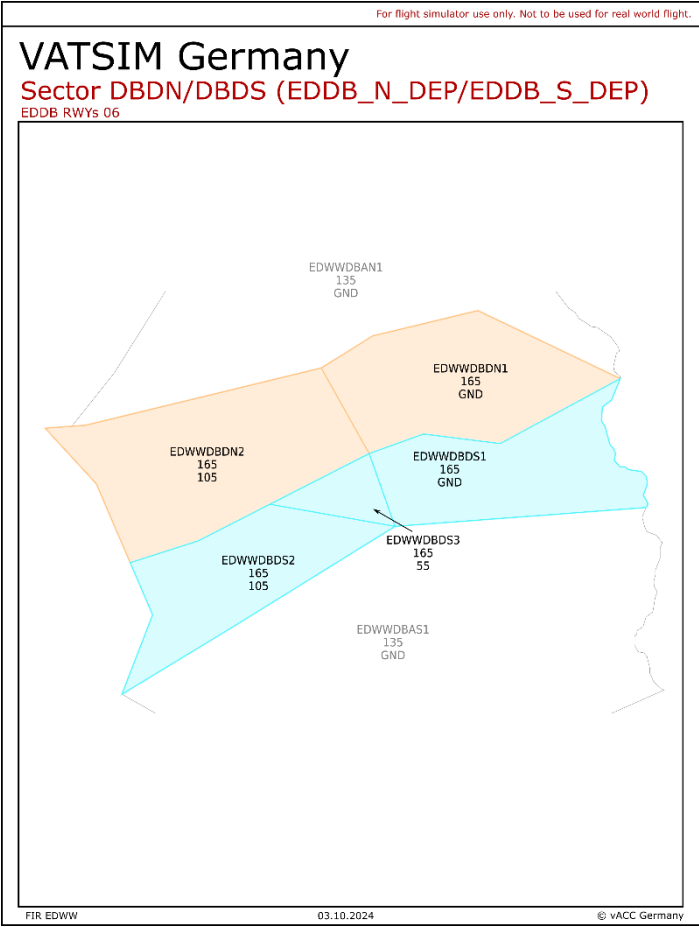
08.08.2024

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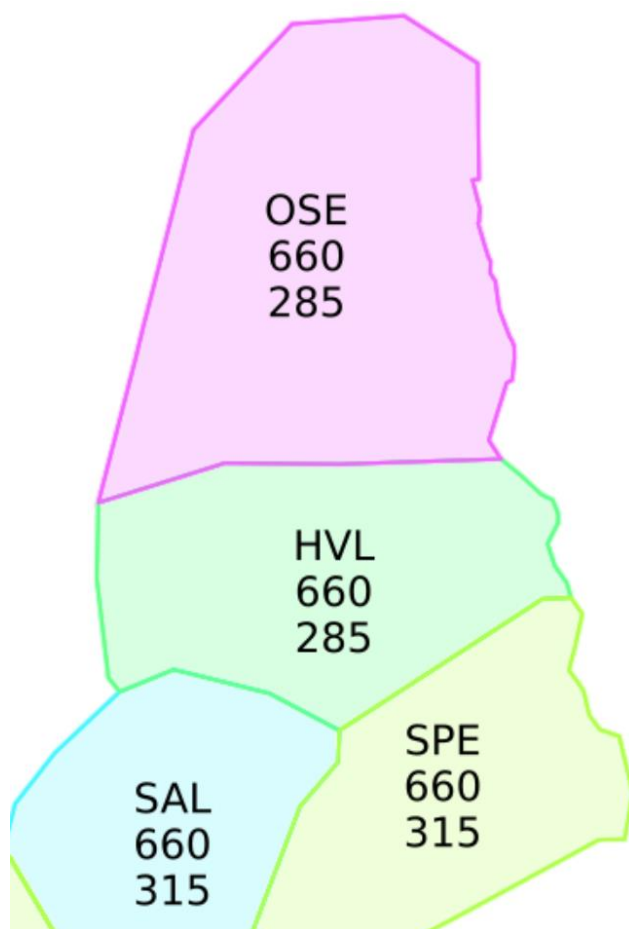
Appendix B



Appendix C

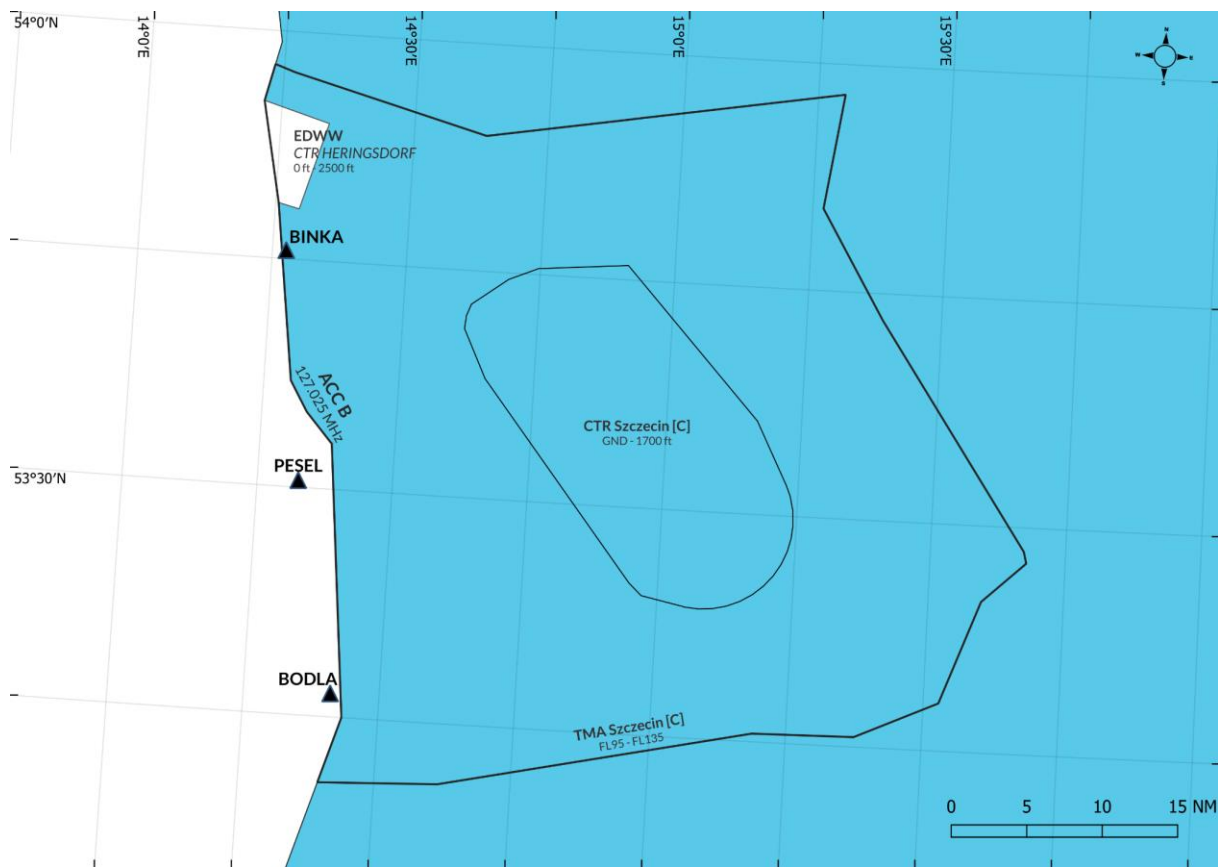


## Appendix D



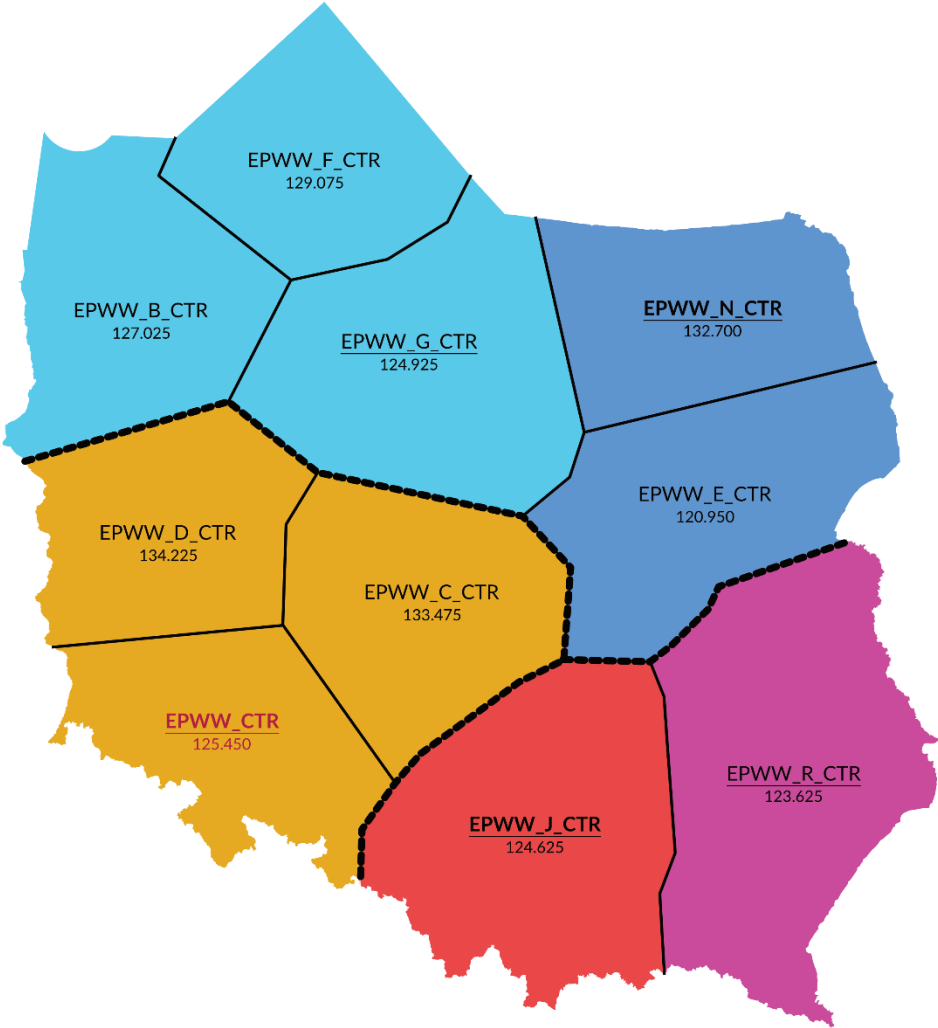
EDUU\_OH\_CTR will cover OSE and HVL above FL365.

Appendix E

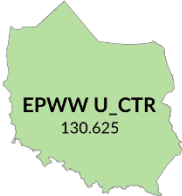




# ACC LOW



# ACC HIGH



Covering FIR Warszawa above F365 when lower ACC is online

Appendix G



Appendix H

