

AIRCREW GUIDE

EAS 50 GRENCHEEN 2013

1. Introduction	3
2. Airport Information	4
2.1. General Information	
2.2. Frequencies	
2.3. Runways	
2.3.1. Lighting.....	5
2.3.2. APAPI	
2.4. Taxiways	
2.5. Navigational Aids	
2.6. Ground Services	
2.6.1. Fuel / Oil	
2.6.2. Maintenance	
2.6.3. Other	
3. Arrival	6
3.1. General Information	
3.2. Customs	
3.3. VFR-Arrival	
3.4. Aircraft Parking	
4. Departure	7
4.1. Briefing and Flightplans	
4.2. VFR-Departure	
5. Display	8
5.1. Overview	
5.2. General Information	9
5.3. Minimum weather conditions.....	9
5.4. Flying Display Limits	10
5.5. Briefing	11
ANNEX A AD Info	12
ANNEX B1 Area.....	12
ANNEX B2 CTR.....	13
ANNEX C LS-R.....	14
ANNEX D Layout.....	15

1. Introduction

Welcome to the invited air-display pilots and teams

Welcome to all our friends of Experimental and Antique Aircrafts and visitors in conventional aircrafts

Experimental Aviation Switzerland, EAS is the club of airplane builders here and we are proudly celebrating our 50 years of running our section of the Swiss Aeroclub.

The organizing committee wishes you a safe journey in and out and a good time during your stay.

To the display crews we wish you all the best for your performance!

Werner Maag, President EAS

We will soon have the honour and pleasure to welcome you at Grenchen Airport.

In this manual you will find the necessary data and information to plan and prepare your flight.

If further questions arise, please don't hesitate to contact us for more details.

You can reach us by phone, fax or e-mail. Numbers and addresses are listed in chapter 2.1.

We are looking forward to meeting you and we wish you a good flight and a happy landing at Grenchen Airport!

Henry Leuthold, Air Display Director

2. Airport Information

2.1. General Information

→ see Annex A for airport info

- Grenchen airport is located 1.5 km southeast of the city of Grenchen.
- Aerodrome reference point: 47°10'53"N / 007°24'59"E
- Elevation: 1411ft / 430m AMSL
- Opening hours: 0800 LT until HR* (max 2100 LT)
- Custom services are available during opening hours. If you have commercial goods to declare, prior permission is requested under the following phone number: 0041 32 365 22 03
- Airport operator:

Regionalflygplatz Jura-Grenchen AG
2540 Grenchen

Phone: 0041 32 396 96 96
Fax: 0041 32 396 96 99
e-mail: info@airport-grenchen.ch
internet: www.airport-grenchen.ch

AFTN address: LSZGYDYX

EAS Contacts:

Phone: 0041 31 381 22 22
Mobile: 0041 79 344 83 83
e-mail: eas@hubmann.ch
internet: www.experimental.ch

2.2. Frequencies

ATIS: 121.100 MHz
GND: 121.800 MHz
TWR: 120.100 MHz
Campo: 127.575 MHz (Glider Freq, for EAS internal use)

2.3. Runways, only for Info, for planning see AD Info (WEF 25 JUL 13)

RWY BRG True/Mag	m	AVBL LEN LDG	AVBL LEN TKOF	Oberfläche SFC	Tragfähigkeit STRENGHT
066/065 246/245	1000x23	865 1000	955 865	ASPH	PCN 44/F/C/X/T
066/065 R 246/245 L	700x30	618 640	640 618	GRASS	0.25 MPa

2.3.1. Lighting

THR light: high and low intensity, white

Flashing lights, white

RWY EDGE light: high and low intensity, white

RWY END light: high and low intensity, red

2.3.2. APAPI

RWY 07/25: 3.5°, left of THR

2.4. Taxiways

Width, surface and strength: 10.5m ASPH: -PCN 30 F/C/Y/T

2.5. Navigational aids DVOR / DME 115.45 MHz

2.6. Ground Services

2.6.1. Fuel / Oil

AVGAS 100LL, JET A1

Oil grades 80/100/15W50

2.6.2. Maintenance

Major aircraft repairs

Minor engine repairs for aircraft up to 5700 kg

2.6.3. Other

Fire protection: category 1

Customs: see 3.2.

3. Arrival

3.1. General Information

Civil aircraft registered in a member state of ICAO do not need special permission to enter or overfly swiss territory or to land at Grenchen airport.

Entry, landing and departure must be in accordance with civil aviation legislation of Switzerland.

Experimentals and Antiques are all accepted, Ultralights only if they are on the accepted list of FOCA Federal Office of Civil Aviation (see list in [AIC A 003 2006 E](#))

After passing AIS and customs please move directly to the **EAS Fly-In reception for administrative arrangements. EAS office Caravan on south side**

3.2. Customs

Custom services are available at Grenchen airport during opening hours.

If you have commercial goods to declare, prior permission is required under the following address:

Zollinspektorat Biel, Schwanengasse 50a, 2503 Biel, Phone: 0041 32 366 70 00

3.3. VFR-Approach

→ see Annex B1 and B2 for VFR-chart

ATIS available on 121.10 MHz.

Establish radio contact with TWR 120.10 MHz latest 5 minutes before entering CTR.

Outer traffic circuit: retractable gear and/or multi-engine aircraft

Inner traffic circuit: single engine with fixed gear

Expect glider activity along the mountains north of the field.

PARA overhead

Inform TWR: "I am EAS member"

3.4. Aircraft Parking

After landing you will be instructed by the tower crew where to park your aircraft.

When instructed by Tower EAS visitors will be guided by EAS ground staff on

CAMPO frequency 127.575 MHz and flagmen standing by to direct you to the south parking area

Please bring your own equipment for lashing your aircraft. Tent camping at airplane in the south parking is accepted

4. Departure

4.1 Briefing and Flightplans

Two briefing computers are at your convenience in our main building on north side. The system offers you meteo data and the possibility to file ATC flightplans. Don't hesitate to contact our staff for support.

EAS is providing WLAN on south side for personal planning.

4.2. VFR-Departure

ATIS information (121.1 MHz) tells you whether GND (121.8 MHz) is active or not.

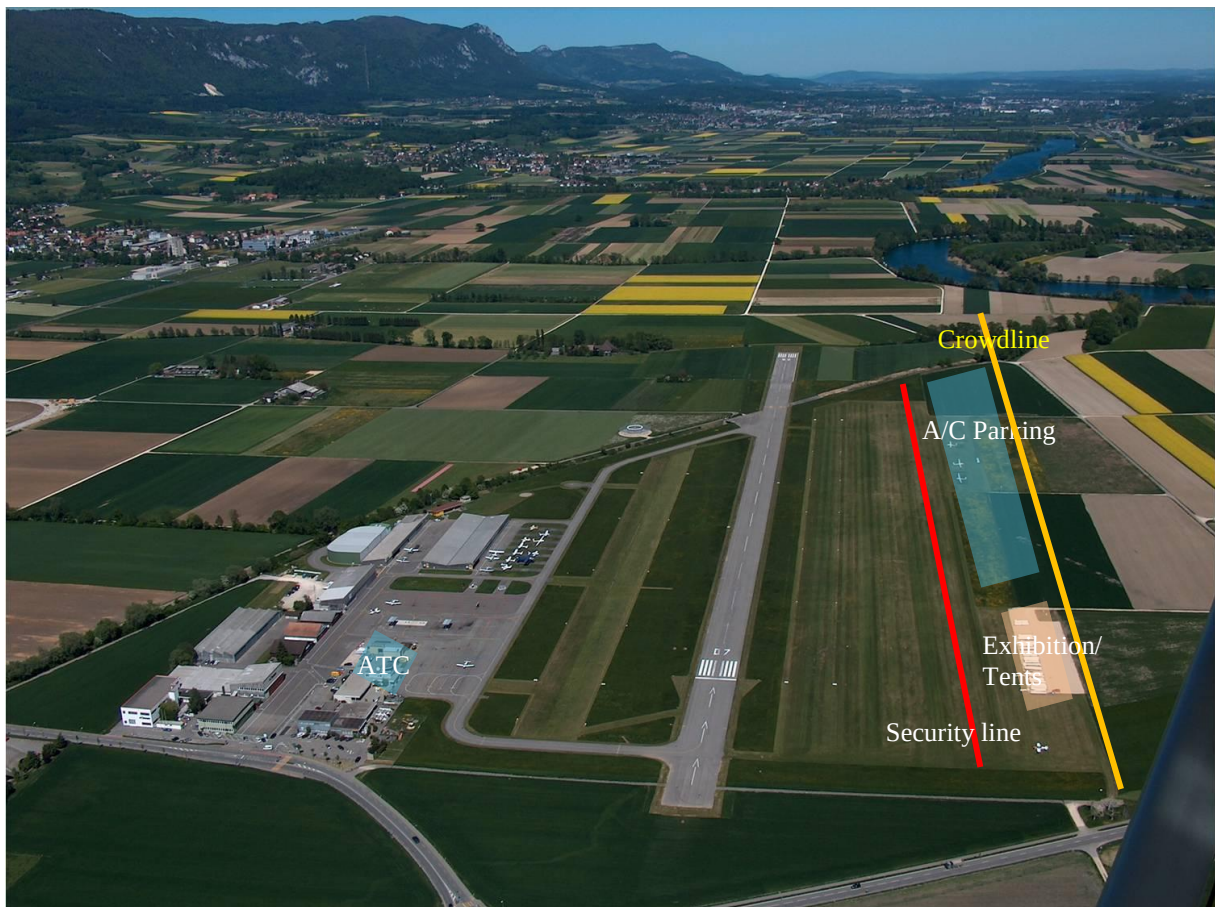
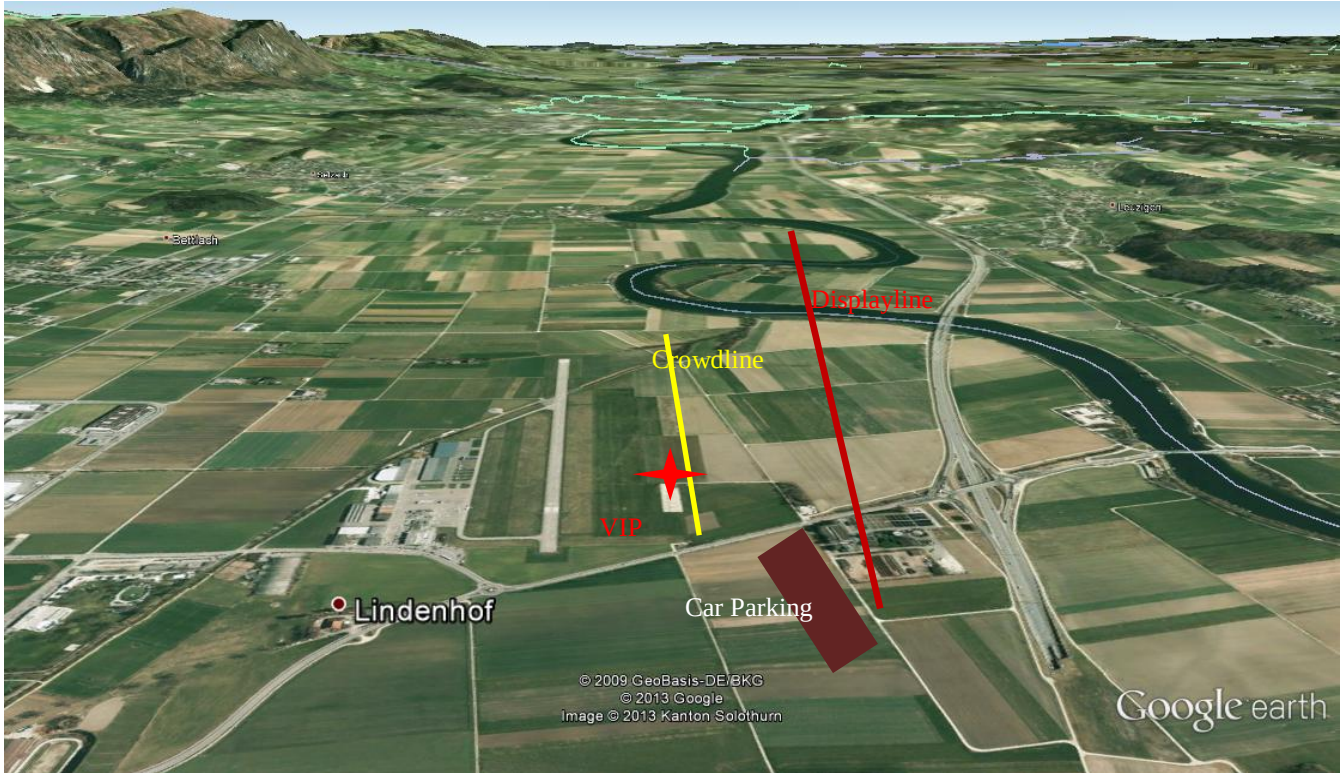
Check Information before calling for taxi.

Include ATIS-designator in the first call.

When ready for departure, inform TWR about your requested outbound routing.

5. Display

5.1. Overview



5.2. General Information

Date and time

OPR hours according AIP AD Info LSZG

During Air displays avoid LS-R, T/O and landing of other traffic is prohibited

See LS-R Annex C

Air Display Slots:

Friday, august 23th: 1030 - 1100lt
 Saturday, august 24th: 1100 - 1120lt / 1330 – 1400lt / 1500 – 1510lt
 1600 – 1620lt / 1700 – 1710lt

Safety

- At all times the aircraft has to be positioned such that, in the event of an engine or airframe failure causing a forced landing or uncontrolled ground impact, this would be outside the crowd area.
- If not specifically authorised in written form by the Swiss Federal Office for Civil Aviation (FOCA) carrying passengers is not allowed. Only essential crew members are to be carried.

Documents / Licences for display pilots

Copies of all required pilot and aircraft documentation and licences need to be forwarded before the flying display.

Administrative arrangements will be supplied at the reception

5.3. Minimum weather conditions

Type of manoeuvres	Number of Aircraft	Rotary-wing		VSTOL (power borne)		Fixed-wing	
		(1)*	(2)*	(1)	(2)	(1)	(2)
Fly past (straight and level)	1	1.0	200	1.5	300	3.7	1000
	2 – 6	1.5	300	3.7	1000	3.7	1000
	7 – 16	1.5	300	3.7	1500	3.7	1500
	over 16	1.5	300	8	2000	8	2000
Aerobatic Flat Show (no vertical manoeuvres)	1	3.7	1000	3.7	1000	3.7	1000
	2 – 6	3.7	1000	3.7	1000	3.7	1000
	7 – 16	3.7	1000	3.7	1500	3.7	1500
Aerobatic full show	As issued by display director						

(1)* visibility in km

(2)* base of clouds in ft AGL covering 5/8 or more

Note: When one or more aircraft are breaking away from a formation and continue in the demonstration, the minimum weather conditions which apply are those applicable to the separately sized groups.

5.4. Flying Display Limits

Aircraft categories

- Cat I	≤ 1000 kg MTOW	prop / turboprop
- Cat II	> 1000 ≤ 4000 kg MTOW	prop / turboprop
- Cat III	> 4000 kg	prop / turboprop / jets

Limitations

Cat I	≤ 1000 kg MTOW	Solo	Formation
V _{max}		---	---
H _{min} *	“normal” level flight	30 m AGL (100 ft) V _{min} ≥ 1.3 V _{STALL}	30 m AGL (100 ft) V _{min} ≥ 1.3 V _{STALL}
H _{min} *	Aerobatics, evolutions incl. recovery	30 m AGL (100 ft)	30 m AGL (100 ft)
H _{min} *	outside the display line	100 m AGL (300 ft) V _{min} ≥ 1.3 V _{STALL}	100 m AGL (300 ft) V _{min} ≥ 1.3 V _{STALL}

Cat II	> 1000 ≤ 4000 kg MTOW	Solo	Formation
V _{max}		---	---
H _{min} *	“normal” level flight	30 m AGL (100 ft) V _{min} ≥ 1.3 V _{STALL}	30 m AGL (100 ft) V _{min} ≥ 1.3 V _{STALL}
H _{min} *	Aerobatics, evolutions incl. recovery	50 m AGL (150 ft)	50 m AGL (150 ft)
H _{min} *	outside the display line	150 m AGL (500 ft) V _{min} ≥ 1.3 V _{STALL}	150 m AGL (500 ft) V _{min} ≥ 1.3 V _{STALL}

Cat III	> 4000 kg MTOW and Jets	Solo	Formation
V _{max}		0.90 M	0.90 M
H _{min} *	“normal” level flight	50 m AGL (150 ft) V _{min} ≥ 1.3 V _{STALL}	50 m AGL (150 ft) V _{min} ≥ 1.3 V _{STALL}
H _{min} *	Aerobatics, evolutions incl. recovery	100 m AGL (300 ft)	100 m AGL (300 ft)
H _{min} *	outside the display line	300 m AGL (1000 ft) V _{min} ≥ 1.3 V _{STALL}	300 m AGL (1000 ft) V _{min} ≥ 1.3 V _{STALL}

Gliders		Solo	Formation
V _{max}		---	---
H _{min} *	“normal” level flight	30 m AGL (100 ft)	30 m AGL (100 ft)
H _{min} *	Aerobatics, evolutions incl. recovery	30 m AGL (100 ft)	30 m AGL (100 ft)
H _{min} *	outside the display line	100 m AGL (300 ft)	100 m AGL (300 ft)

5.5. Briefing for display crews only

Every pilot departing for a display has to attend a briefing.

For pilots departing for the show from Grenchen, the briefings will be held individually after arrival. Pilots departing and landing on other airports, have to do the briefing by phone. Please contact the Flying Display Director latest:

Friday: 0900 lt

Saturday: 1000lt

Please do not contact the Flying Display Director during displays in progress
Please announce your display call sign or nickname at the briefing.

e-mail: leuthold-h@bluewin.ch

Display Director: **Henri Leuthold** +41 (0)79 413 59 66

Deputy: **Ernesto Looser** +41 (0)79 768 83 41

→ NO BRIEFING – NO FLYING !!!!!

5.6. LS-R

→ see Annex C

5.7. Schedule (provisional)

Friday (Training)

Pilot / Team	Aircraft type	Nb	Take off*	Display*	Landing*
PC-7 TEAM	PC-7	9	Ex MEI	1030-1100	MEI

Saturday

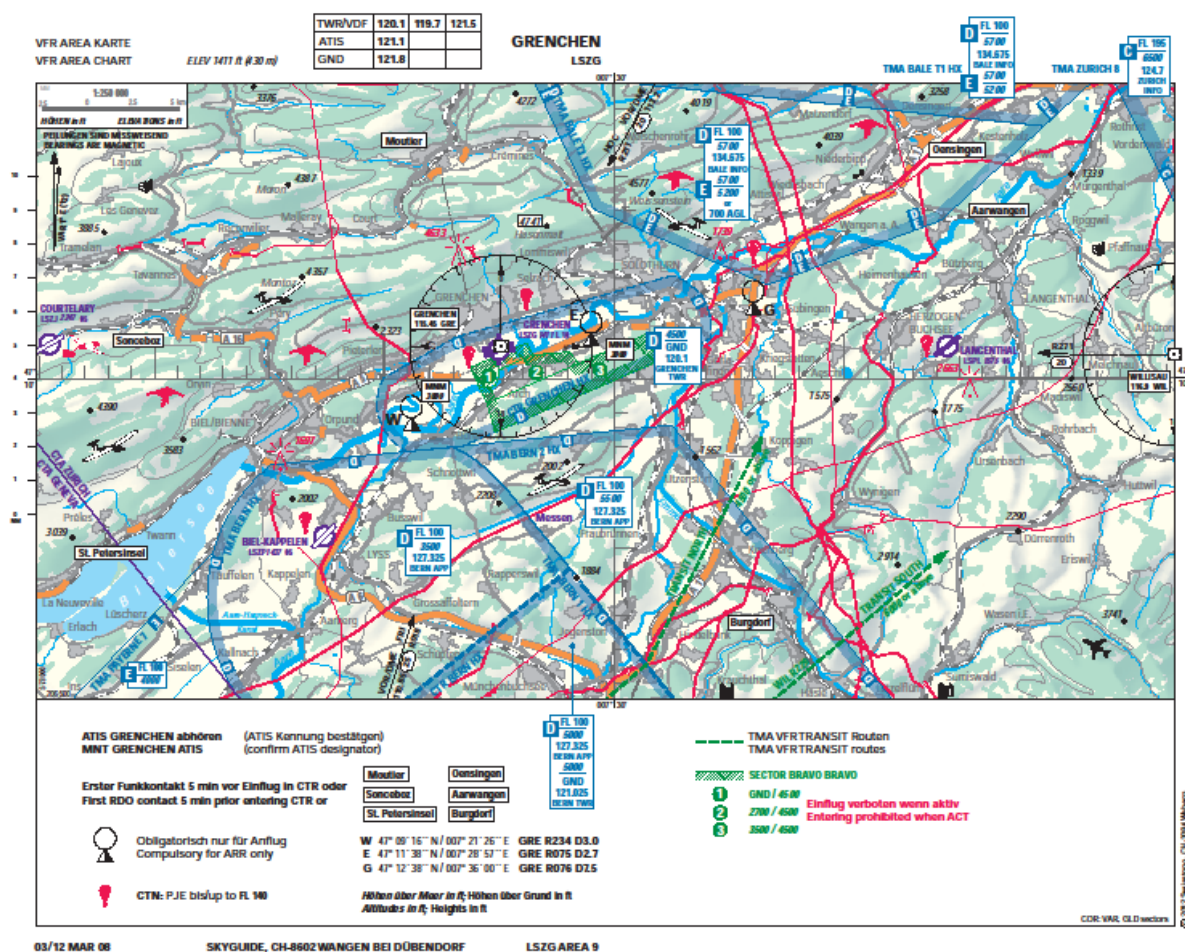
Pilot / Team	Aircraft type	Nb	Take off*	Display*	Landing*
Patr Reva (Trg)	Varieze	3	1100	1100	1120
PC-7 TEAM	PC-7	9	Ex MEI	1330-1400	MEI
S.Vogelsang	Votec 322	1	1500	1500	1510
Patr Reva	Varieze	3	1600	1600	1620
M. Rüesch	Votec 252	1	1700	1700	1710

* all times are local

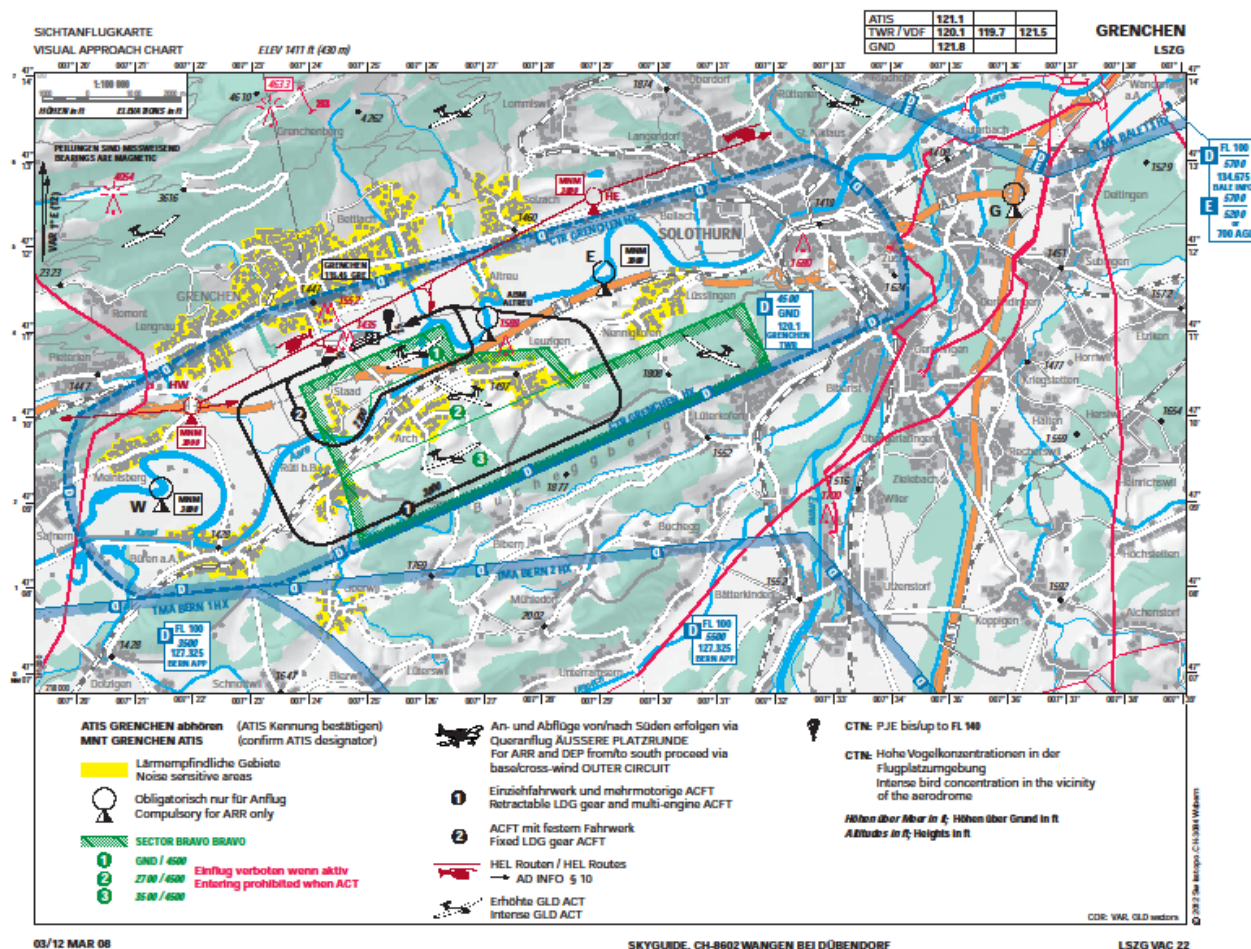
ANNEX A – ADINFO

See AD INFO (WEF 25 JUL 13 and [Grenchen Airport Pilots Briefing](#))

ANNEX B1 – VFR Chart (Area)



ANNEX B2 – VFR Chart (CTR)



ANNEX C – LS-R

Circle of 7km radius;
centered at LSZG/Grenchen ARP (WGS84: 47°10'53"N / 007°24'59"E, ELEV 1411FT)
EXCL Bern TMA1 and CTR Grenchen.



Details:

Callsign	TURBO (9 PROP ACFT)			
Range of height	Upper limit:	6000 / 5500 (below LSZB TMA2) FT AMSL		
	Lower limit:	GND / 4500FT AMSL over CTR LSZG		
Year	Date	Day	Time (LT)	Event
2013	AUG23	FRI	TBD	Trg
	AUG24	SAT	TBD	DEMO

Zeiten sind noch nicht bekannt (NOTAM/DABS beachten!)

HEMS-Besatzungen die in diese R-area einfliegen müssen, haben das Display-Team auf der REGA Koord FREQ 130.800MHz (MIL: V69) aufzurufen.

