



Airspace issues in the Amsterdam FIR

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subjects

- Airspace
- SERA
- Mode S
- FPL
- 8.33 kHz radio
- 20 frequencies for gliding in Europe
- near future issues in NL

airspace

- new IAF (4) for EHAM > re-structure TMA's
- expansion EHLE (Lelystad) in central NL
with TMA, heavy consequences for gliding

SERA

- comment by Royal Netherlands Aeroclub to Dutch authorities 2014-07-03
- main issue: FPL obligation for VFR x-border
- discussion announced for ‘medio Oktober’
- implementation 2014-12-11, see AIC-A 07/2014

Mode S

- ‘advice’ XPDR off during winch launch (ACAS)
- Concept of Operations still missing
- Mode S in principle in the whole Amsterdam FIR above 1200 ft
- TFZ’s around 5 gliding sites (3NM, 3500 ft)
- LPSE?
- glider tracking via Extended Squitter

FPL

- A Europe-wide exemption from FPL filing for VFR X-boder glider flights?
- A draft letter to the members of the EGU is with the Board since March ☹️

8.33 kHz radio below FL 195

- Regulation 1079/2012
- all new radios per 2013-11-17
- for VFR in class A, B and C per 2014-01-01
where applicable
- for VFR in class D ... G *ultimately* 2018-01-01
- 22 k gliders involved!
- total cost for VFR: 167 M approx.
- consult the Regulation and your AIC's

8.33 kHz frequency system

- 118.000 MHz (25)
- 118.005 MHz (the same, but in 8.33)
- 118.010 MHz (8.33)
- 118.015 MHz (8.33)

- 118.025 MHz (25)
- 118.030 MHz etc.

Civil frequencies. Announced, but criticized dates for conversion.

LVNL frequentie conversieplan 8.33 kHz

Note:
 Prio-1 frequenties uiterlijk 31-12-2014
 Prio-2 frequenties min. 3 mnd na prio 1
 Prio-3 frequenties min. 3 mnd na prio 2
 Prio-4 frequenties min. 3 mnd na prio 3
 frequenties worden niet omgesteld.

Communicatie
 ATIS
 (nog) niet in gebruik
 Overig
 Blijft 25 kHz

(Versie 14 april 2014)

Locatie	Freq.	Type	Gebruik volgens ICAO planning	Nieuwe Aanduiding	Airspace klasse	PRIO	Opmerkingen	AIRAC Publication date	AIRAC Effective date
NATIONAL AERODROMES	122,75	A/G	Maetvlucht Frequentie LVNL TD & NLR	122,755		1		5-dec-14	8-jan-15
AMSTERDAM ACC	118,8	ACC	HOLDING SUSOL	118,805	A	1	ACC-Radar (arrival Susgol holding)	5-dec-14	8-jan-15
AMSTERDAM ACC	120,55	ACC	HOLDING ARTIP	120,555	A	1	ACC-Radar (arrival Artip holding)	5-dec-14	8-jan-15
AMSTERDAM ACC	123,7	ACC	CTA WEST	123,705	A	1	ACC-Radar (sector 5)	5-dec-14	8-jan-15
AMSTERDAM ACC	124,875	ACC	CTA EAST 1 en 2	124,880	A	1	ACC-Radar (sector 2)	5-dec-14	8-jan-15
AMSTERDAM ACC	128,575	ACC	CTA EAST 1 en 2	128,580	A	1	ACC-Radar (sector 2)	5-dec-14	8-jan-15
AMSTERDAM ACC	130,95	ACC	HOLDING RIVER/CTA SOUTH 1 en 2	130,955	A	1	ACC-Radar	5-dec-14	8-jan-15
AMSTERDAM ACC	132,975	ACC	ARRIVAL ATIS SCHIPHOL	132,980	A	1	ATIS Arrival	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	122,2	ATIS	DEPARTURE ATIS SCHIPHOL	122,205	C	1	ATIS Departure	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	131,35	ATIS	Aanvulling ATIS SCHIPHOL	131,355	A	1	ATC Operational Information Schiphol	5-dec-14	8-jan-15
GRONINGEN/EELDE	133,55	ATIS	Atis Eelde	133,555	E	1	ATIS Eelde	5-dec-14	8-jan-15
MAASTRICHT/MAASTRICHT	124,575	ATIS	Atis MAS	124,580	B & D	1	ATIS Maastricht	5-dec-14	8-jan-15
AMSTERDAM ACC	132,575	ACC	NON OPERATIONAL (Sector 2 Inbound)	132,580	C	1	Planned	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	131,275	APP	NON OPERATIONAL	131,280	A	1	Planned	5-dec-14	8-jan-15
LELYSTAD/LELYSTAD	134,525	APP	NON-OPERATIONAL	134,530	C	1	Planned	5-dec-14	8-jan-15
LELYSTAD/LELYSTAD	120,725	ATIS	NON-OPERATIONAL	120,730	G	1	Planned	5-dec-14	8-jan-15
LELYSTAD/LELYSTAD	135,175	TWR	NON-OPERATIONAL	135,180	C	1	Planned	5-dec-14	8-jan-15
AMSTERDAM ACC	120,875	ACC	DISCRETE EMERGENCY	120,880	A	1	Discrete Emergency Frequency (DEF)	5-dec-14	8-jan-15
AMSTERDAM ACC	127,775	ACC	Backup Amsterdam Radar	127,780	A	1	ACC-Radar (sector 3)	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	121,65	AS		121,655		1	TWR-Start Up Control	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	121,775	AS		121,780		1	Sleepfrequentie AAS Zuidzone (SPL)	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	121,875	AS		121,880		1	Sleepfrequentie AAS Noordzone (SPL)	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	121,975	AS		121,980		1	TWR-Clearance Delivery	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	122,425	AS	TWR Ground (reserve)	122,430		1	TWR Ground (reserve)	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	118,95	TWR		118,955	C	1	TWR Reserve	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	130,475	TWR	ADM	130,480	C	1	Airport 1 (AAS)	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	134,875	TWR		134,880	C	1	Sleep Frequentie	5-dec-14	8-jan-15
AMSTERDAM/SCHIPHOL	118,4	APP		118,405	A	2	APP-Arrival	27-feb-15	2-apr-15
AMSTERDAM/SCHIPHOL	131,15	APP		131,155	A	2	APP-Arrival	27-feb-15	2-apr-15
AMSTERDAM/SCHIPHOL	121,7	AS		121,705		2	TWR-Ground (zuid)	27-feb-15	2-apr-15
AMSTERDAM/SCHIPHOL	121,8	AS		121,805		2	TWR-Ground (gebruik rijbaan V)	27-feb-15	2-apr-15
AMSTERDAM/SCHIPHOL	118,275	TWR		118,280	C	2	3e toren frequentie	27-feb-15	2-apr-15
ROTTERDAM/ROTTERDAM	118,2	TWR		118,205	C	2	TWR Rotterdam (CIR)	27-feb-15	2-apr-15
AMSTERDAM/SCHIPHOL	118,075	APP	APP/DEP at ATC discretion	118,080	A	3	APP-Approach/Departure	22-mei-15	25-jun-15
AMSTERDAM/SCHIPHOL	119,05	APP		119,055	A	3	APP-Approach/Departure	22-mei-15	25-jun-15
AMSTERDAM/SCHIPHOL	121,2	APP		121,205	A	3	APP-Approach/Departure	22-mei-15	25-jun-15
AMSTERDAM/SCHIPHOL	121,8	AS		121,805		3	TWR-Ground (noord)	22-mei-15	25-jun-15
AMSTERDAM ACC	126,675	ACC	APP at ATC discretion	126,680	A	4	APP-Arrival	14-aug-15	17-sep-15
ROTTERDAM/ROTTERDAM	127,025	APP		127,030	A & E	4	Rotterdam Approach	14-aug-15	17-sep-15
ROTTERDAM/ROTTERDAM	121,75	AS		121,755	E	4		14-aug-15	17-sep-15
ROTTERDAM/ROTTERDAM	121,795	AS		121,780		4		14-aug-15	17-sep-15
ROTTERDAM/ROTTERDAM	122,175	AS		122,180	E	4		14-aug-15	17-sep-15
AMSTERDAM/SCHIPHOL	118,1	TWR		118,105	C	4	TWR (2e RC frequentie)	14-aug-15	17-sep-15
AMSTERDAM/SCHIPHOL	119,225	TWR		119,230	C	4	TWR (1e RC frequentie)	14-aug-15	17-sep-15
AMSTERDAM/SCHIPHOL	119,9	TWR		119,905	C	4	TWR Reserve	14-aug-15	17-sep-15
NATIONAL AERODROMES	119,7	TWR	REGIONAL GUARD FREQUENCY	119,705	C	4		14-aug-15	17-sep-15
GRONINGEN/EELDE	120,3	APP		120,305	E	4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	120,2	APP	ATC discretion	120,205	B & D	4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	123,975	APP		123,980	B & D	4		14-aug-15	17-sep-15
GRONINGEN/EELDE	121,7	AS		121,705	E	4		14-aug-15	17-sep-15
GRONINGEN/EELDE	121,775	AS		121,780		4		14-aug-15	17-sep-15
GRONINGEN/EELDE	121,9	AS		121,905		4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	121,775	AS		121,780		4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	121,825	AS		121,830	B & D	4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	121,9	AS		121,905		4		14-aug-15	17-sep-15
GRONINGEN/EELDE	118,7	TWR		118,705	C	4		14-aug-15	17-sep-15
MAASTRICHT/MAASTRICHT	119,475	TWR		119,480	C	4		14-aug-15	17-sep-15
AMSTERDAM ACC	123,85	ACC	CLIMAX / CTA South 1 en 2	123,850	A	n	ACC-Radar (sector 3)		
AMSTERDAM ACC	124,3	ACC	CLIMAX FIR NL/ BARK CTA SOUTH	124,300	A	n	ACC-Radar (sector 4)		
AMSTERDAM ACC	126,75	ACC	CLIMAX / ZUS West FIR NLD	126,750	A	n	ACC-Radar (sector 4)		
AMSTERDAM ACC	134,375	ACC	CLIMAX / CTA North/ Holding Narag	134,375	A	n	ACC-Radar (sector 1)		
AMSTERDAM/SCHIPHOL	121,5	EMF	Emergency Frequency	121,500		n	Emergency Frequency		
NORTH SEA	119,175	PIS	CLIMAX	119,175	A & C	n	FIC-Information (Sea Centre)		
NORTH SEA	136,85	PIS	CLIMAX	136,850	A & C	n	FIC-Information (Sea South)		
AMSTERDAM ACC	126,2	VOIMET	CLIMAX / VOIMET Schiphol en Eelde	126,200	A	n	Amsterdam MET broadcast		

Artikel 5

Verplichtingen van exploitanten

1. Een exploitant mag een luchtvaartuig alleen boven vlieghoogte 105 exploiteren als de radioapparatuur van dat luchtvaartuig met 8,33 kHz-kanalaafstand kan werken.

2. Vanaf 1 januari 2014 mag een exploitant een luchtvaartuig alleen volgens instrumentvoorschriften exploiteren in luchtvaartklasse A, B of C van de in bijlage 1 genoemde lidstaten

als de radioapparatuur van dat luchtvaartuig met 8,33 kHz-kanalaafstand kan werken.

3. Het is niet toegestaan om in lid 2 bedoelde vlieghoogte te vliegen op een boordtoestel van radioapparatuur voor 8,33 kHz-kanalaafstand mag een exploitant een luchtvaartuig alleen volgens richtlijnvoorschriften exploiteren in gebieden met 8,33 kHz-kanalaafstand als de radioapparatuur van het luchtvaartuig met 8,33 kHz-kanalaafstand kan werken.

4. Overnemer artikel 2, lid 5, mag een exploitant vanaf 1 januari 2018 een luchtvaartuig alleen exploiteren in delen van het luchtruim waarin een radio aan boord moet zijn als de radioapparatuur van het luchtvaartuig met 8,33 kHz-kanalaafstand kan werken.

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Military frequencies. Announced, but criticized dates for conversion

Locatie	Freq.	Type	Gebruik volgens ICAO planning	Nieuwe Aanduiding	AIRAC Publication date	AIRAC Effective date
TWENTE TWR	119,95	TWR	NON OPERATIONAL	X	5-dec-14	8-jan-15
NIEUW MILLIGEN ACC	120,825	ACC	CTA NORTH	120,830		
NIEUW MILLIGEN ACC	125,925	ACC	CTA ZUID WEST	125,930	5-dec-14	8-jan-15
NIEUW MILLIGEN ACC	128,35	ACC	CTA NORTH	128,355	5-dec-14	8-jan-15
NIEUW MILLIGEN ACC	132,525	ACC	CTA ZUID OOST	132,530	5-dec-14	8-jan-15
EINDHOVEN	126,025	ATIS	ATIS EINDHOVEN	126,030	5-dec-14	8-jan-15
EINDHOVEN	121,925	GC	GROUND CONTROL	121,930	5-dec-14	8-jan-15
EINDHOVEN	124,525	APP	ARRIVAL	124,530	5-dec-14	8-jan-15
EINDHOVEN	131,000	TWR	TOWER	131,005	5-dec-14	8-jan-15
EINDHOVEN	X	APP	CDA vs VFR	X	5-dec-14	8-jan-15
EINDHOVEN	122,1	TWR	NATO COMBINED TOWER	122,100		
DE KOOY	120,125	TWR	TOWER	120,130	22-mei-15	25-jun-15
DE KOOY	121,725	GC	GROUND CONTROL	121,730	22-mei-15	25-jun-15
DE KOOY	122,1	TWR	NATO COMBINED TOWER	122,100		
DE KOOY	123,300	APP	FINAL	123,305	27-feb-15	2-apr-15
DE KOOY	124,225	APP	ARRIVAL	124,230	27-feb-15	2-apr-15
DEELEN	122,1	TWR	NATO COMBINED TWR	122,100		
DEELEN	129,925	TWR	TOWER	129,930	22-mei-15	25-jun-15
GILZE RIJEN	121,675	GC	GROUND CONTROL	121,680	22-mei-15	25-jun-15
GILZE RIJEN	122,1	TWR	NATO COMBINED TOWER	122,100		
GILZE RIJEN	125,325	TWR	TOWER	125,330	22-mei-15	25-jun-15
LEEUWARDEN	120,7	TWR	TOWER	120,705	22-mei-15	25-jun-15
LEEUWARDEN	121,675	GC	GROUND CONTROL	121,680	22-mei-15	25-jun-15
LEEUWARDEN	122,1	TWR	NATO COMBINED TOWER	122,100		
LEEUWARDEN	123,100	SAR	SEARCH AND RESCUE	123,100		
LEEUWARDEN	132,025	APP	RAPCON NOORD	132,030	27-feb-15	2-apr-15
LEEUWARDEN	136,225	FIS	REFIS	136,230	?	
NIEUW MILLIGEN	132,35	FIS	FIC	132,355	14-aug-15	17-sep-15
NIEUW MILLIGEN	120,875	DEF	DISCRETE EMERGENCY	120,880	14-aug-15	17-sep-15
NIEUW MILLIGEN	136,300	FIS	REFIS / CLIMAX	136,300		
TWENTE APP	118,575	APP	NON OPERATIONAL	118,580	27-feb-15	2-apr-15
TWENTE	122,1	TWR	NATO COMBINED TOWER	122,100		
VLIELAND	122,1	TWR	NATO COMBINED TWR	122,100		
VOLKEL	121,675	GC	GROUND CONTROL	121,680	22-mei-15	25-jun-15
VOLKEL	122,1	TWR	NATO COMBINED TOWER	122,100		
VOLKEL	123,175	APP	RAPCON SOUTH	123,180	27-feb-15	2-apr-15
VOLKEL	124,525	APP	EINDHOVEN ARRIVAL	124,530	27-feb-15	2-apr-15
VOLKEL	136,075	TWR	TOWER	136,080	22-mei-15	25-jun-15
WOENSRECHT	120,425	TWR	TOWER	120,430	22-mei-15	25-jun-15
WOENSRECHT	121,675	GC	GROUND CONTROL	121,680	22-mei-15	25-jun-15
WOENSRECHT	122,1	TWR	NATO COMBINED TOWER	122,100		
WOENSRECHT	123,100	SAR	SEARCH AND RESCUE	123,100		
WOENSRECHT	123,575	APP	ARRIVAL	123,580	27-feb-15	2-apr-15
WOENSRECHT	134,475	APP	RAPCON WEST	134,480	27-feb-15	2-apr-15

the new radio's

- good news: the new radio's 'go' 8.33 ('narrow') automatically, as a function of the frequency selected
- make no mistakes when selecting the frequency: 118.000 is 'broad', 118.005 is the same frequency, but narrow
- one 'broad' transmission covers three 'narrow' channels!

NL frequencies for gliding, RTF not required

- 122.475 MHz
- 122.500 MHz
- 123.350 MHz
- 123.375 MHz
- 123.500 MHz
- 129.975 MHz
- 130.125 MHz

20 frequencies for gliding

- 20 frequencies, dedicated to gliding,
for the whole of Europe
- support *by you*, on your national level is necessary
- a letter from the Board to help you is still not out,
reminder to SG 141028
- these frequencies probably 8.33-type ones
- decision: ICAO EANPG FMG (Frequency Management Group)

near future issues in NL

- 8.33 kHz channel separation
- SERA
- civ – mil ATCC integration
- NOTAM readability
- FLARM tracking?

1090 Extended Squitter is already popular in NL for glider tracking (Flightradar 24)

QUESTIONS?