

## Trying to identify 'Missing NDBs?' - missing from Europe's CLE228 reports - and now maybe closed down.

In older CLEs we just compared the NDBs actually reported the last time we covered the frequencies with the current CLE's reports. That sounds valid, but **it ignores the mass of other reports made to REU/RNA/RWW for those frequencies.**

This is a new, hopefully much better, way of extracting the more likely 'hits' by using the recent CLE results and the RWW database. Don can continue to give us his valuable service by using these 'Missing NDBs?' lists to search the NOTAMs and then telling us what he found. He - and you - are welcome to join in with any suggestions for further improvements in making the list for our next CLE. The equivalent CLE228 'Missing?' list for Rest of the World will follow soon, after I complete some changes being made in my database.

In the following table, the entries towards the right hand side show some 'key' statistics, for each NDB:

- Logs: The total number of loggings previously reported for this NDB (from REU)
- Cous: The total number of radio countries from which this NDB has been heard (from REU) - see 'Heard in' below
- Last Hrd: The last reported heard date yyyy-mm (from REU)
- \* Own CRs: The total number of all reports submitted in CLE228 by all reporters located in this NDB's radio country (see after table)
- Heard in: The actual radio countries from which this NDB has been heard (from REU) - see 'Cous' above

Those five things allow the list for all reported NDBs to be reduced to the ones that look like 'real' candidates for 'Missing'. I have added program checks to make the list shorter (e.g. omit all NDBs with only 1 previous logging!) but I think the final stage requires **manual weighing of the remaining candidates against the evidence shown in the five key columns.** (That only takes a few minutes to do)

The entries in the following table are what is left, shown in 'Last Heard' sequence - There are probably still too many lines - e.g. may be no need to show the oldest 'Last Hrd's if NOTAMs are only found for recent changes?

kHz	C/S	ITU	area	Location	Logs	Cous	Last Hrd	*OwnCRs	Heard In
940	UD	RUS	E	Chudovo	102	9	2013-02		CZE DEU DNK fin LVA NOR RUS SVN SWE
635	KO	RUS	E	Kotly	111	10	2013-04		CZE DEU DNK ENG fin LVA NOR POL RUS SWE
441	CK	CZE	E	Prerov	358	26	2013-06	281	IRL ITA NOR POL RUS SAR SCT SCY SHE SUI SVN SWE
525	WRW	POL	E	Wroclaw / Strachowice	623	30	2013-07		HRV IRL ITA LVA NIR NOR POL RUS SAR SCT SCY SHE SUI SVN
618	FT	POL	E	Pruszcz Gdanski	68	12	2013-07		CZE DEU DNK ENG FIN FRA LVA NOR POL RUS SVN SWE
770	MA	UKR	E	Mariupol	57	12	2013-10	39	CZE DEU DNK ENG FIN GRC LVA NOR RUS SVN SWE UKR
770	MR	UKR	E	Mariupol	50	12	2013-12	39	CZE DEU ENG FIN GRC LVA NOR POL RUS SVN SWE UKR
643	TP	UKR	E	Topchyne	56	12	2013-12	39	CZE DEU DNK FIN GRC LVA NOR POL RUS SVN SWE UKR
650	OS	RUS	E	Osmino	120	8	2013-12		DEU DNK ENG fin LVA NOR RUS SWE
493	KR	RUS	E	Krasnodar	155	21	2014-04		POL RUS SAR SHE SVN SWE UKR

493	LD	RUS	E	Krasnodar / Pashkhovsky	141	18	2014-05		RUS SVN SWE UKR
688	IP	RUS	E	Zakharovka	41	10	2015-02		CZE DEU FIN GRC LVA NOR RUS SVN SWE UKR
705	RR	ROU	E	Bucuresti / Otopeni	29	8	2015-02		CZE DEU FIN GRC ITA POL SVN SWE
795	N	UKR	E	Donetsk	27	10	2015-04	39	CZE DEU ENG FIN GRC LVA POL RUS SVN SWE
450	WU	RUS	E	Sosnovka	162	18	2015-10		SAR SVN SWE UKR
830	SW	UKR	E	Shepetovka	174	19	2015-11	39	NOR POL RUS SVN SWE
266	M	ROU	E	Baia Mare	57	13	2015-12		CZE DEU DNK ENG FIN FRA HOL HRV POL RUS SUI SVN SWE
445	CG	RUS	E	Pribylovo	45	9	2015-12		CZE DEU DNK ENG FIN HOL NOR RUS SWE
477	RP	SVK	E	Malacky - Kuchyna	421	28	2015-12		ITA LVA NIR NOR POL RUS SAR SCT SCY SHE SRB SUI SVN SWE
522	P	HNG	E	Nyiregyhaza	36	11	2016-10		CZE DEU DNK ENG FRA GRC HOL ITA POL SVN SWE
735	KW	UKR	E	Koviagi	197	16	2016-11		SVN SWE UKR
522	PQ	HNG	E	Nyiregyhaza	22	10	2016-12		BEL CZE DEU DNK ENG FIN HOL HRV RUS SVN
791	SU	RUS	E	Belozersk / Ozyorsk	108	12	2017-01		CZE DEU DNK ENG fin LVA NOR POL RUS SVN SWE UKR
517	JBR	HNG	E	Jaszbereny	509	28	2017-02		HRV ITA LVA NOR POL RUS SAR SCT SCY SHE SUI SVN SWE UKR
kHz	C/S	ITU	area	Location	Logs	Cous	Last Hrd	OwnCRs	Heard In

\* (The 'OwnCRs' entry can help e.g. the 281 for the third line (Prerov in CZE) means that all the CLE228 reporters in CZE sent a TOTAL of 281 reports. That means there was a lot of local searching for signals, and any active CZE NDB in the range was very likely to be heard. However, this would not be very meaningful for a large radio country like Russia (EU) )

CLE228's unusual frequency ranges and the good reception conditions at this time of year were particularly suitable for testing this.

I see REU shows 1,544 NDBs as 'INACTIVE', probably nearly all now closed down.

Only NOTAMs could have helped to confirm that they really are closed, perhaps with local knowledge from our members?

**FOOTNOTE:** The difference between REU, RNA and RWW often confuses us, I think.

**RWW** is the WHOLE DATABASE of all reports on beacons everywhere, reported from anywhere.

**REU** is all the RWW records for beacons that have been HEARD FROM SOMEWHERE IN EUROPE

**RNA** is all the RWW records for beacons that have been HEARD FROM SOMEWHERE IN NORTH AMERICA

There are other subsets of the RWW records - such as PACIFIC, etc., used for CLE seeklists.

**Please correct me** if I've got things significantly wrong in that footnote - I don't think I've ever seen an explanation anywhere?

(There is no credit due to me at all for the excellent RWW database - I'm just a very much impressed user of it.

I have had no significant involvement in its conception, development or in the entry of reports)

