CLE255 COORDINATOR'S COMMENTS:

Hello all

Another Listening Event is over - last weekend we were searching for NDBs in the range 385 - 399.9 kHz. Conditions were mostly so-so, but that didn't stop some impressive logs from being made.

Welcome
It was very good to see THREE first time CLE logs, all from Europe. Welcome and thanks to **Cormac from Cork** (IRL), **Giorgio from Crocetta del Montello,** TV (ITA) and **Noel from Clacton** (ENG). The total of 53 logs was easily the highest number in all of our April CLEs, helped by the Corona virus, no doubt, as also was our March CLE.

Mistakes!
There is a visible mistake in the Rest of the World results **and** an invisible one in Europe's combined results - **both were my fault**. The visible one is a line of nonsense numbers at the end of the last table, apparently showing HUGE % increases where the line should be all blank!

The invisible mistake was spotted (!) by **Ray E** because he found his name missing from the list of reporters at the start. To my dismay I found (not very quickly) that **Dave R** and **Peter G** are missing from the list too. The weird thing is that all three of them are included in all of the results tables, which shouldn't be possible! It was Dave who solved the puzzle with this advice:

The "missing" names are not really missing at all, just hidden, as the height for rows 20-22 has been accidentally reduced to zero. *Just highlight rows 19-23 and reset the row height to 12.25 and all will be well again!

You should find that the same cure works on your copy. I think the lines disappeared because my mouse just have had a brainstorm while I was tidying something near the reporters list, but not in it! (I've just ordered a new mouse)

'There are Lies, Damned Lies and Statistics' (Mark Twain, et al) You've maybe already read enough about mistakes in our CLE results and statistics. If so, please bypass this next section!

How we check the Results Joachim in DEU and I in ENG each separately enter every incoming CLE log into his Harvester program, but there are lots of ways that we could get differences in the results.

These are some of them:

1. He (or more likely I) may not have correctly copy/pasted every one of the 2,000 or so log lines.
2. We may not have made the same corrections of any errors that the Harvester program found in the logs.
3. We may not have both used exactly the same Locator for each of the 50 or so listeners (those are used in calculating all the distance statistics of course).
4. We may not have both used exactly the same Locator for every NDB - especially where REU/RNA/RWW showed a location name, but no Locator (so we needed to do some detective work).

There are typically over 6,000 cells that contain numbers in the ten tables that we each make (in Excel and in the emails, both for Europe and for the Rest of the World). It would take quite a while for us to check that all 6,000 of those numbers are exactly the same. Offers of help to tackle part of that job could be welcome. (Joke!)

Fortunately, we have a quick and easy way of being fairly sure that ALL those numbers agree. It makes use of this table, which you probably recognise. It has calculated several statistics for each reporter for this CLE ('NOW') and also for the last time we covered the same frequencies ('THEN'):

THEN CLE240 - 385-399.9 kHz - 25.01.2019 - 28.01.2019
NOW CLE255 - 385-399.9 kHz - 24.04.2020 - 27.04.2020

Listener	Av km THEN	Av km NOW	Total km x 1000 THEN	Total km x 1000 NOW	NDBs THEN	NDBs NOW	Max km THEN	Max km NOW	
CZE my	1020	1004	72	60	71	60	4767	3961	11015
DEU bd	905	827	36	36	40	43	3583	1664	7134
DEU hw	1325	1382	136	145	103	105	7523	7523	18243
DEU je	1066	909	76	52	71	57	5412	1773	9416
ENG hh	1108	1026	92	57	83	56	6712	6712	15847
ENG px	1036	859	63	43	61	50	4750	1831	8693
FIN ks	1782	1983	102	147	57	74	8399	8399	20942
FRA ea	1005	1133	52	82	52	72	6563	6563	15522
FRA fb	838	742	38	29	45	39	6980	6980	15690
HOL rb	1121	1272	90	118	80	93	7041	7041	16856
IRL cu	788	864	14	25	18	29	1356	1866	4961
ITA wb	514	467	11	10	21	21	1112	1107	3262
SCT ds	1329	1331	88	84	66	63	6536	6536	16032
Averages:	1064	1061	67	68	59	59	5441	4766	12586
% Increase:		**-0**		**2**		**-1**		**-12**	**-11**
									176187
	14903	14858	937	958	827	820	76175	66709	**176187**

Av. km = Average distance from listener to NDB for all their loggings
Total km = Sum of distances from listener to NDBs for all their loggings
NDBs = Number of NDBs logged
Max km = Maximum distance from listener to an NDB logged
(UNIDs are not included)

You can see that extra figures have been added to the right of the table and also below it. They are made in a few seconds using just the Excel 'AutoSum' function.

So the extra figures to the right are the **sum of the figures in each line** - and the extra figures at the bottom are thee **sums of the columns**. The two 'boxed' figures are the **sums of the sums** (and they are bound to be the same as each other). If Joachim and I both get the same grand total (176187 this time) we know that all the numbers agree and need to check very little else.

If you think about it, any single difference between our 'harvesting' (e.g. in any of the Items 1., 2., 3. or 4. listed above) would result in a difference in our overall totals.

If that happened, we would immediately also see which of our line(s) - i.e. Reporter(s) - and/or which column (THEN figure or NOW figure, etc.) showed a difference and we would quickly be able to find and correct the cause of the difference(s).

The same thing is done for the last table (the one with 'NOW only' columns) to be sure that the other, 'no last time', reporters also have no mistakes in their statistics.

That brings us back to where we started! The visible mistake in the Rest of the World results is the bottom line of check totals, which I had forgotten to delete.

Coming CLEs:
(The dates are provisional at present)

CLE256 Fri. May 22nd - Mon. May 25th a 'Special'
CLE257 Fri. June 26th - Mon. June 29th

Good listening and take care.

73
Brian
(CLE Coordinator)

(My thanks to Joachim who helped a lot in making this email)