Search for X06

The X06 Team is constantly trying to log and understand the transmissions broadly known as X06 or Mazielka. The purpose of this message, to all UDXF members is to ask for a more intense focus on this series of signals. It is hoped that the following descriptions will help members identify as X06 those signals which previously have been ignored or misunderstood.
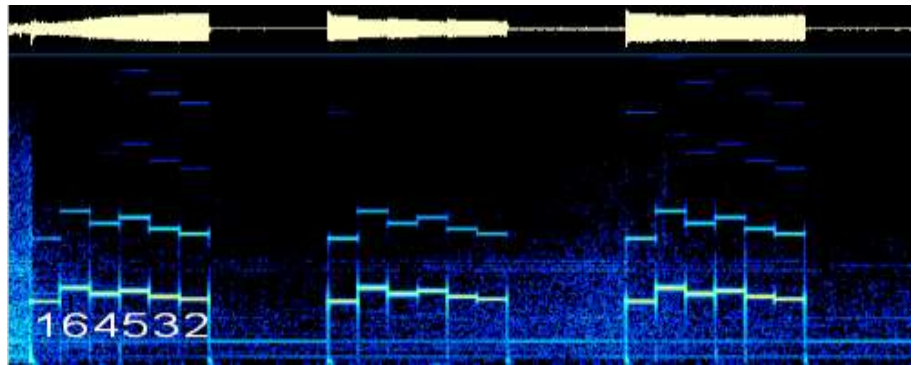
Outline

X06 has been in evidence since the sixties and originally appeared to act as a pre-cursor or alarm to RTTY and Crowd36 transmissions. This came in the form of a six tone sequence as follows:

The following sequence shows as 164532

There are 720 different tone combinations (1x2x3x4x5x6)

Tone (Hz)	Number
820	1
850	2
880	3
920	4
960	5
1000	6

Each tone sounds for 0.3 sec with a pause of 1.3 seconds between sets and this sequence usually lasts between 2 and 6 minutes. The above shows a sample of a pure X06, however there are other combinations.

X06a

Alternating two tones e.g. 161616 each tone lasting approximately 0.3 seconds repeated after 1.3 seconds a whole transmission has been known to last up to 4-5 hours.

X06b

A group of less than 6 tones, where at least 1 tone is longer than the others, separated by a pause, such as 12-456 or 1--6--. Each longer tone lasting approximately 1.0 second separated with a pause of 1.3seconds.

X06c

6 tone rising scale e.g. 123456

X06 transmissions are usually found transmitting on single upper side band with a full carrier, but it have been seen transmitting on DSB/AM on occasion as well as in single upper side band without a carrier.

Schedules

The frustrating element of X06 is the fact that there appears to be no regular schedules other than the day/week number such as:

1st Monday of the month …1st Tuesday of the month …1st Wednesday of the month ………..5th Friday of the month …5th Saturday of the month etc.
In some instances, time slots can be found which are repeated in successive months.

Frequencies
Reference to the X06 database, to be found on the UDXF and N&O websites lists those frequencies currently in use.

http://udxf.nl/X06-Logs-Database.xls
http://www.numbersoddities.nl/X06-Logs-database.xls

Purpose (With thanks to Ary Boender)
What is the purpose of X06? That might have changed. In the past it was definitely used as wake-up call for diplo/intel transmissions. The fact that X06b is linked to E07, XPA and M12 might indicate that this is still the case.

The crowd transmissions appeared on the old RTTY/ M42 nets and the readable parts indicated that they were related to the old RTTY stations. Although these nets were always linked to diplo traffic, they were also used by the intel community. Note the digital (RTTY/Crowd/etc.) transmissions are only sent to embassies, consulates, etc. Embassy personnel does not only include diplomats but also intelligence personnel and military attaches who also receive messages through the same channels.

X06b is linked to the "7" family, which makes me believe that X06 is only used in combination with an intel transmission and is/was not used for diplo transmissions. That means that X06 is operated by the agency that runs the "7" network. This explains why X06 did not always appear before all RTTY/Crowd transmissions. It only appeared before an intel transmission. I assume that this is still the case but we may not always notice it, as transmissions can be in any mode these days, and they are not necessarily on the same frequency.

We see that F06 is quite active and it is using some of the old id's from the RTTY days, and the headers and messages are similar to that traffic, yet we don't see any X06 activity. Probably because F06 belongs to the "6" family (E06, S06, G06, etc.) and not to the "7" family.

X06 Logs Database
Logs have been made of X06b sounding on frequencies scheduled for XPA, E07 and M12 up to 1 hour before the main transmission and may also be linked to other families.

Summary
The data contained in these tables is taken from the SIGINT logs which covers signals from February 2001 to the present day. The data was compiled from Enigma Newsletters and emails sent by members to the Enigma and UDXF groups and other utility databases. Until 2009 only those records where tone sequences have been recorded, are included in this database. However from 1st January 2009, signals from credible sources have been included without tone sequences or full timing details.

February 2012: Corruption in some form has meant a virtual re-write of all data. The resultant data still contains data which is incorrect but this is restricted to "Reporter" and "Comments" Those records from 1st April 2011 can largely be accepted as correct but others should not be assumed to be correct.

Database explanation / Manual
The filter feature is based on the concatenation of week, day, frequency or tone sequence. So all you need to do is select a cell, for example J4646 – click on auto filter and you will be presented with a list of matching cells e.g. group 271.

X06 LOGS DATABASE							Select All	AutoFilter	Go to top					
							Date Order	Clear Filter	Input new data					

Version 2.20		Today is woensdag 4 juli 2018			1 woensdag of the month									
Date	Day number	Frequency	Start time (UTC)	End time (UTC)	Duration	Tones	Alert	Group Match (Week, day, tones)	Freq match (Week, day, frequency)	Group number	Related	ID	Reporter	Comments

Field names	Explanation	
Date	Date	(de)
Day number	Example: 2nd Monday of the month	(aut)
Frequency	Frequency	(de)
Start time UTC	Start time in UTC	(de)
End time UTC	End time in UTC	(de)
Duration	Duration of the transmission	(aut)
Tones	Mazielka tone sequence	(de)
Alert	Alert nr	(de)
Group Match	Matches Week, day, tones	(aut)
Freq match	Matches Week, day, frequency	(aut)
Group number	Tone group nr	(aut)
Related	Related transmission	(de)
ID	Tone sequence/Tone group id	(aut)
Reporter	Reporter/Contributor	(de)
Comments	Comments	(de)

(de) means data entry
(aut) means automatically filled

Filters

Select all	Select all data
Date order	Sort data by date
Go to top	Go to the first entry of the database
Input new data	Go to the end of the database
Clear filter	Clear all filters
Auto filter cells	Select a cell, click on auto filter and you will be presented with a list of matching

Please do not hesitate to contact the X06 Team if you have any queries.
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