Meteor M N1 HRPT: 256 byte packet, 4 byte ASM (1A CF FC 1D), from byte N5 to N22 – header and other info.
HRPT data 23-254 byte. Latest 2 bytes (N255 N256) – PEC.

In HRPT data (23-254 byte) exist other synchromarker 02 18 a7 a3 92 dd 9a bf (see Fig.1) every 50 line

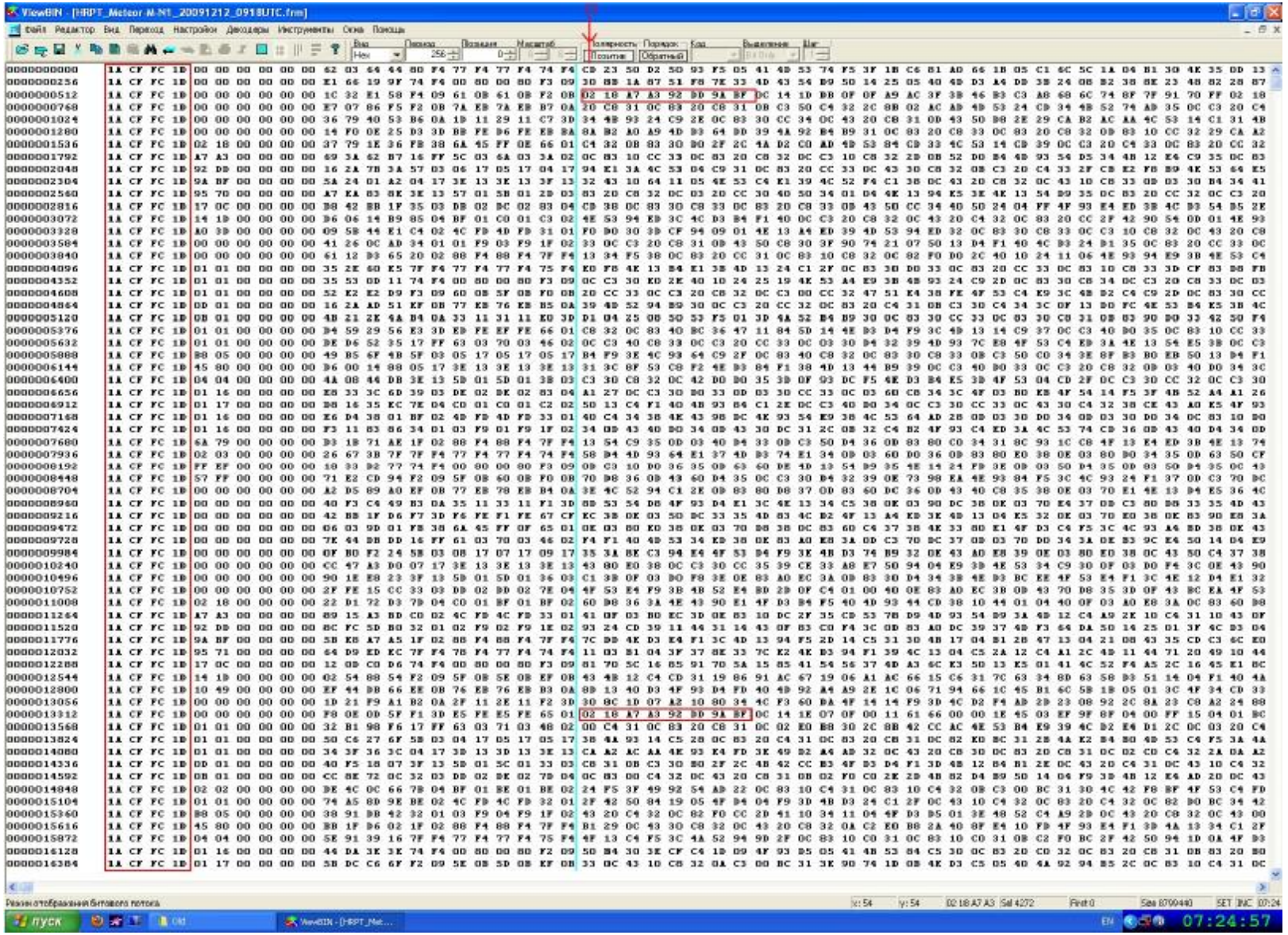

Fig. 1 HRPT data in 256 byte period.

The total number bytes: 232 *50 = 11600 bytes or 92800 bits. (see Fig. 2)

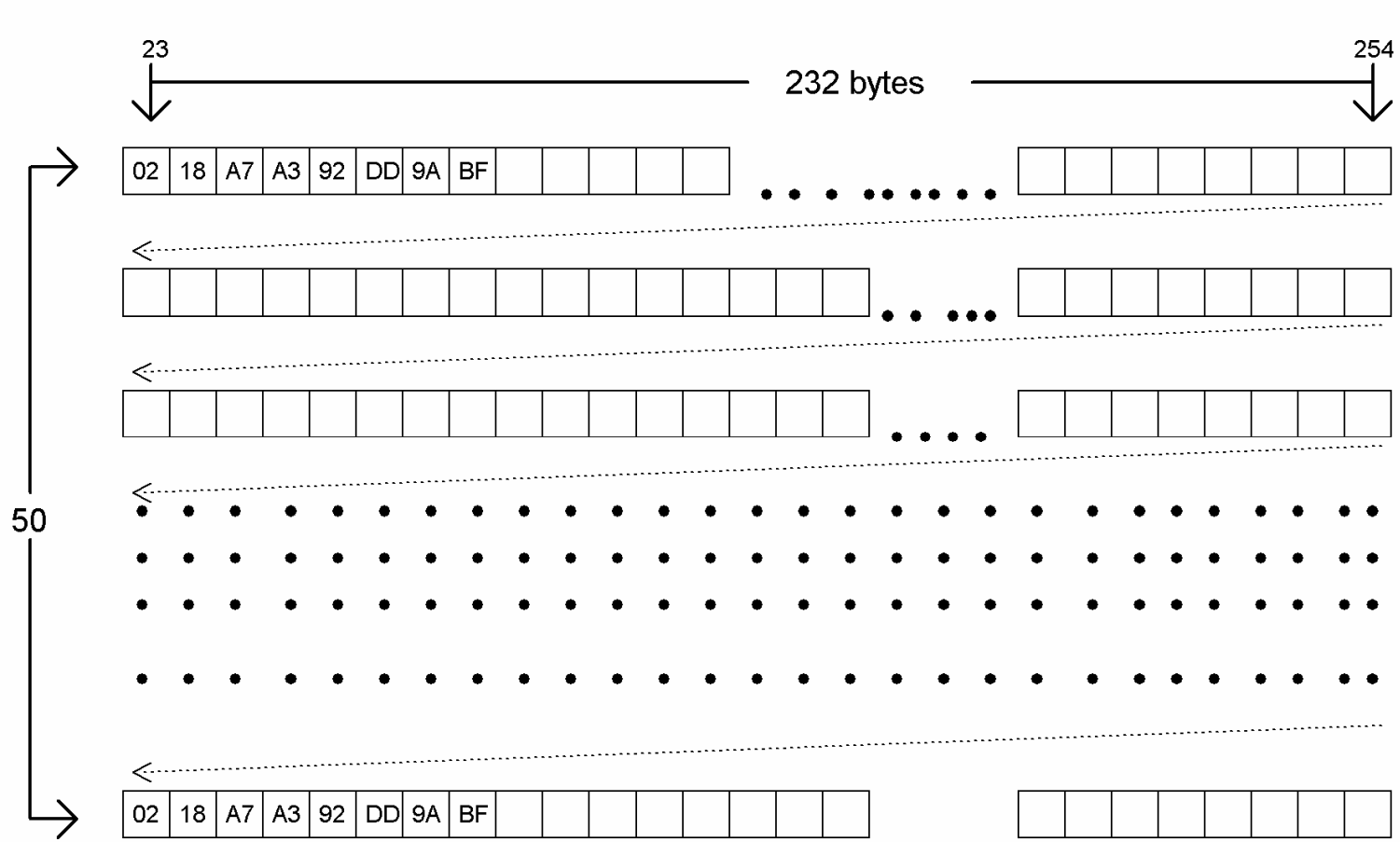

Fig. 2 HRPT data in 232 byte period.

After extracted HRPT data (bytes from N23 to N254) and synchronization 02 18 a7 a3 92 dd 9a bf , see Fig.3

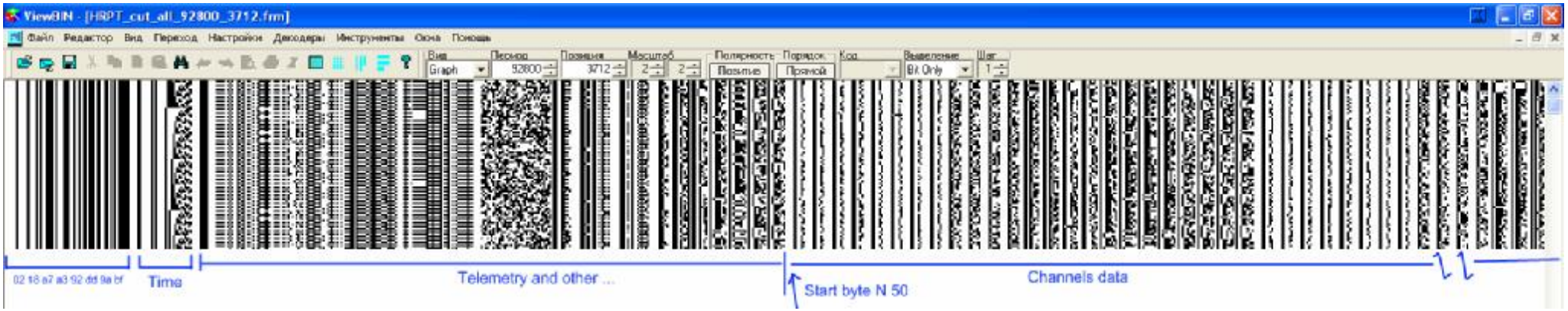

Fig. 3 HRPT data in 92800 bits period.

The channels data start in 400 bits, or byte N50. Transmitting all 6 channels. Each pixel 10-bit (big-endian). The width of channel line – 1540 pixels.
Order channels : Ch1 pix1, Ch1 pix2, Ch1 pix3, Ch1 pix4, Ch2 pix1, Ch2 pix2, Ch2 pix3, Ch2 pix4, Ch3 pix1, Ch3 pix2, Ch3 pix3, Ch3 pix4, …
.., Ch6 pix1, Ch6 pix2, Ch6 pix3, Ch6 pix4, Ch1 pix5, Ch1 pix6, Ch1 pix7, Ch1 pix8, …,… Ch6 pix1537, Ch6 pix1538, Ch6 pix1539, Ch6 pix1540.

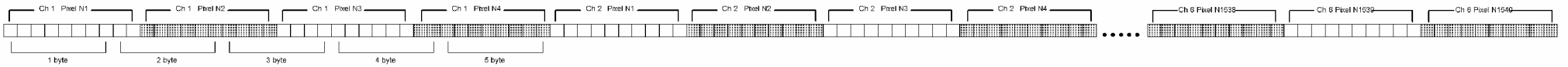

Fig. 4 Order channels.

Example extracted Channels N4 (file HRPT_Meteor-M-N1_20091212_0918UTC)

Thanks to all, who helped me !!!

73! Oleg

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