数据时间：2019年7月26日20时51分9秒（周五） 卫星19

* 一帧1800比特，一行50比特
* 1~6比特为PRN，1~21比特为PRN+BCH(21,6)，6比特能容纳63颗卫星
* 22~29比特为SOH，22~72比特为SOH+BCH(51,8)，SOH为8比特，小时内秒计数，18秒一帧，一个小时200个计数，0~199，每帧加1
* 子帧2、3（1728比特）做了交织

原始电文：

0 1 0 0 1 1 0 0 1 0 1 1 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 1 0 0 1 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 1 0 0 0 1 1 1 0 0 0 1 0 1 1 1 0 0 1 1 0 1 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 1 0 0 1 0 0 1 1 1 0 0 1 1 1 0 0 1 0 1 0 1 1 1 1 0 0 0 0 1 0 1 0 0 1 1 1 1 1 0 0 0 1 1 1 0 0 1 0 0 1 1 1 1 0 0 0 1 0 0 0 0 1 0 0 0 1 1 1 0 1 0 1 0 0 0 0 0 1 0 1 0 0 1 0 0 1 1 0 1 0 1 0 0 1 0 1 1 1 1 0 1 1 1 0 1 1 0 1 0 1 0 1 0 1 0 0 1 1 1 1 1 0 0 1 1 1 0 1 0 0 1 1 0 1 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0 1 0 0 1 0 1 1 0 1 0 1 0 1 0 0 1 1 1 0 1 1 0 0 1 0 1 1 1 0 0 0 0 0 0 0 1 1 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 1 1 0 1 0 0 1 1 0 1 0 0 1 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 0 0 0 1 0 0 1 1 0 1 0 1 1 0 1 0 1 0 0 1 0 1 1 0 0 0 1 0 0 0 0 1 0 1 0 0 0 1 1 0 1 1 1 0 0 0 0 0 1 1 1 1 0 1 1 0 0 1 1 1 1 1 0 1 1 0 1 1 0 1 0 1 0 1 0 0 1 1 1 0 0 0 0 1 1 0 0 0 1 0 1 0 0 1 1 0 1 0 1 1 0 0 1 1 0 1 0 0 1 0 0 0 1 1 1 1 1 1 0 0 1 0 1 1 1 1 0 0 0 1 0 1 1 0 1 0 0 1 1 1 1 1 0 1 0 0 0 1 1 0 1 1 0 1 0 1 1 1 0 1 1 0 0 0 0 1 1 0 1 1 0 0 0 0 1 0 1 1 0 0 0 1 1 1 0 0 1 0 1 1 0 0 1 0 0 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0 1 0 1 1 0 1 1 1 0 0 1 1 1 0 0 1 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0 1 1 0 0 1 0 1 0 0 1 0 1 1 1 0 1 0 0 1 0 1 1 0 1 0 1 1 0 0 1 1 1 1 0 1 1 0 1 1 0 1 0 1 0 1 0 1 1 1 0 1 0 0 0 1 1 1 1 1 1 0 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 1 0 1 1 1 0 0 0 0 1 0 0 1 1 0 0 0 1 1 0 1 1 1 0 0 0 1 1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 1 0 1 1 0 1 1 0 0 0 0 1 1 1 0 1 0 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 1 1 0 0 1 0 0 1 0 1 1 1 1 1 0 1 1 1 0 0 1 0 1 0 0 0 1 0 0 1 1 0 0 1 1 0 1 0 1 0 1 0 0 1 1 1 0 0 0 1 1 0 1 1 0 0 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 1 1 0 0 0 1 0 0 1 0 0 1 1 0 1 1 0 0 1 0 0 0 0 1 1 0 0 1 0 1 1 1 0 0 0 0 1 1 0 1 1 0 0 0 1 1 1 0 1 1 0 1 1 1 0 1 1 1 0 0 0 1 0 0 0 0 0 0 0 1 0 1 1 0 0 1 1 0 0 0 1 1 1 0 1 1 0 0 0 1 0 1 1 1 0 0 0 1 1 0 0 1 1 0 1 1 1 0 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 1 1 0 1 1 0 1 0 1 1 1 0 0 0 1 0 0 0 1 0 0 1 1 0 0 0 0 0 0 1 1 0 1 1 0 1 1 0 1 0 0 0 1 1 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 1 0 1 1 1 0 0 1 1 1 0 1 1 0 0 0 1 0 1 0 0 1 0 0 1 1 0 0 0 1 0 0 0 1 1 0 1 0 1 1 0 0 0 0 0 0 0 0 1 1 0 1 1 0 0 0 1 0 0 1 1 0 0 1 1 0 0 1 0 1 0 1 1 0 0 1 0 1 1 1 0 1 0 1 0 0 1 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 1 1 1 0 0 0 1 1 1 0 1 0 0 0 0 0 1 1 0 0 1 1 0 0 0 1 0 1 1 0 1 0 0 0 0 0 1 0 0 1 1 1 1 0 0 1 1 1 1 1 0 0 1 0 1 0 1 0 0 1 0 1 0 0 1 0 1 1 0 0 1 0 0 0 1 1 0 1 0 1 0 1 1 1 1 0 1 1 1 0 0 0 1 0 0 0 0 1 0 1 1 0 1 1 1 0 1 0 0 0 0 0 0 1 1 1 0 0 1 0 0 1 1 1 0 1 0 0 1 0 0 0 1 1 1 1 1 0 1 0 1 0 0 1 1 0 1 0 0 0 1 0 1 1 1 0 0 1 1 1 0 1 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1 1 1 0 0 1 0 1 0 1 0 0 0 0 1 1 1 1 0 0 0 1 0 1 1 1 1 1 0 0 0 0 0 1 1 1 1 0 1 0 0 0 0 1 1 0 1 1 1 0 1 1 1 1 1 0 1 0 0 1 0 1 1 0 0 0 1 1 1 1 0 1 1 0 0 1 0 1 1 0 1 0 0 0 0 0 0 0 1 1 0 0 1 1 1 0 0 0 1 0 1 0 1 1 0 1 0 1 0 0 0 1 0 0 1 0 0 0 1 0 0 1 1 0 1 0 0 0 0 1 0 1 1 1 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 1 0 0 1 1 1 0 1 1 0 1 1 0 1 0 0 1 0 0 0 1 0 0 0 0 1 1 0 1 1 0 0 0 1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 1 0 1 0 1 1 0 0 1 0 0 0 1 0 0 1 0 1 1 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 1 1 1 1 1 0 1 0 0 0 0 0 0 1 1 1 0 1 1 0 0 1 0 0 0 1 1 0 1 0 0 1 0 0 1 1 1 0 1 0 1 0 1 0 0 0 0 0 0 1 1 0 1 1 1 0 1 1 0 0 1 0 1 1 1 0 0 1 1 0 1 1 1 0 0 0 1 0 1 0 0 0 0 0 0 0 1 1 0 1 0 0 1 1 0 0 0 0 1 1 1 1 0 1 1 0 0 0 0 1 1 1 0 0 1 0 0 0 0 0 0 1 0 1 0 0 0 1 1 1 1 1 1 0 1 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1 1 0 1 1 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 1 0 1 0 0 1

* WN：整周计数，13比特（0~8191），0~8191
* HOW：周内小时数，8比特（0~255）,0~167（一周168小时）小时以周日零点为起点
* IODC：10比特，星历参数版本号
* IODE：8比特，钟差参数版本号，IODE与IODC低8位相同时表示本组星历和钟差参数匹配
* Rev：7比特，全0
* CRC校验：24比特
* LDPC(200,100)编码
* 周内小时数计算：5\*24+20-8=132（10000100）

解交织后子帧2：（600+600）

0 0 0 1 0 1 1 0 0 0 0 1 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1 0 0 1 0 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 1 1 0 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 1 1 1 0 0 0 0 1 0 0 1 1 1 1 1 0 0 0 1 0 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 1 1 1 0 1 1 0 1 0 0 0 1 0 0 0 0 1 1 0 1 0 0 0 1 0 0 0 0 0 1 1 1 1 0 1 0 1 1 1 1 1 1 1 0 1 1 1 0 0 1 0 0 1 0 1 0 0 0 1 1 0 1 1 0 1 0 0 1 0 0 1 0 0 1 0 1 1 0 0 0 1 0 0 0 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 1 0 1 0 1 1 1 0 0 1 1 0 0 0 1 1 1 1 1 0 1 1 0 1 0 0 1 1 1 1 0 1 0 0 1 0 0 0 0 0 0 0 1 1 1 1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 1 1 1 0 1 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 1 0 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 0 1 1 0 1 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 1 0 1 0 0 1 0 0 1 1 0 1 0 1 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 1 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 1 1 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1 0 1 0 0 0 1 0 1 0 1 1 1 0 1 1

0 0 1 1 0 1 0 0 0 0 0 1 1 1 1 1 0 1 1 1 1 0 0 0 1 1 1 0 0 1 0 0 1 0 1 1 1 1 0 1 0 0 1 1 0 1 0 0 0 1 0 0 1 1 0 1 0 1 0 1 0 0 0 1 0 0 1 0 1 1 0 0 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1 1 1 1 0 1 0 0 1 1 0 0 0 0 0 0 1 0 0 0 1 1 1 0 0 0 1 0 1 1 1 0 1 0 0 1 1 1 1 0 1 0 1 1 0 0 0 0 1 0 0 1 0 1 1 1 0 0 0 1 1 1 0 0 1 1 1 0 1 0 0 0 0 0 1 0 1 1 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 1 0 1 0 1 1 1 1 0 0 1 0 1 0 1 0 0 1 0 1 1 0 0 0 1 1 0 0 0 0 0 1 1 1 0 0 1 1 1 0 1 0 0 1 1 1 1 1 1 0 0 0 0 1 1 1 1 0 1 1 0 1 0 0 1 1 0 0 0 1 0 0 0 0 0 0 1 1 1 1 1 1 0 1 0 1 0 1 1 0 0 0 1 0 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1 0 1 0 1 1 1 1 1 1 0 0 1 1 0 0 1 0 0 0 0 1 0 1 1 1 1 1 0 0 0 0 1 1 1 1 1 0 0 1 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 1 0 0 1 1 0 0 0 1 0 1 0 1 0 1 0 0 1 0 1 0 0 0 0 1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 0 0 0 1 0 0 0 0 1 0 1 1 1 0 0 0 1 1 1 1 1 1 1 1 0 1 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 1 1 1 1 1 0 0 1 1 1 0 1 0 0 1 1 1 0 1 0 1 1 1 0 0 0 1 1 0 1 0 1 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1 0 1 1 1 1 0 1 0 1 1 1 0 0 0 1 0 0 1 1 1 1 0 0 1 1 1 0 1 0 0 1 1 0 0 0 1 1 1 1 1 0 1 1 0 0 0 0 1 0 0 1 0 1 0 0 1 1 0 0 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1 0 0 1 1 1 1 1 0 0 0 1 1 0 0 0 1 1 1 0 0 0 1 0 1 0 0 1 0 0 0 1 1 0 1 0 1 0 1 1 1 1 0 0 1

* PageID：6比特，四种页面类型1~4
* CRC校验：24比特
* LDPC(88,44)编码

解交织后子帧3：（264+264）

0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 1 1 0 1 0 1 1 0 1 1 0 0 0 1 1 1 1 0 0 1 0 0 1 1 0 0 0 1 0 1 1 0 0 0 0 1 1 0 0 1 1 0 1 0 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1 0 0 1 1 0 0 1 0 1 0 0 1 0 1 0 0 0 1 0 1 0 0 1 1 1 1 0 1 0 1 0 1 0 0 0 1 1 1 0 1 1 1 1 1 1 0 1 1 0 1 1 0 1 0 1 1 1 1 1 0 1 1 0 1 1 1 1 0 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 0 1 1 0 0 0 0 1 0 1 1 1 1 1 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0 0 1 0 0 1 0 0 0 1 0 1 0 0 1 0 1 1

0 1 1 1 1 1 1 0 0 1 1 0 1 0 0 0 0 0 1 1 0 1 1 0 1 0 0 1 1 0 0 1 0 1 1 1 0 0 1 1 0 0 0 1 0 1 1 1 0 1 1 1 1 0 1 1 0 0 0 1 1 1 0 0 0 1 0 1 0 0 0 0 1 0 0 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 0 0 1 1 1 0 1 1 1 1 1 1 1 0 1 1 1 1 0 0 1 1 0 1 0 0 0 1 1 0 0 1 1 0 0 0 1 1 1 1 0 1 1 0 0 0 1 1 1 1 1 1 0 0 1 0 0 0 1 0 1 1 0 1 1 0 1 0 1 1 0 0 0 0 0 1 0 1 0 0 0 1 1 0 1 0 1 0 0 1 0 0 1 1 0 0 0 1 1 0 1 1 1 1 1 0 1 0 1 1 0 0 0 1 1 0 1 1 1 0 1 0 0 0 0 0 1 1 0 0 1 0 1 0 1 0 0 0 1 1 1 1 1 0 1 0 0 1 0 0 1 1 1 1 0 0 0 1 1 1 0 1 0 0 0 1 0 0 1 1 1 0 1 1