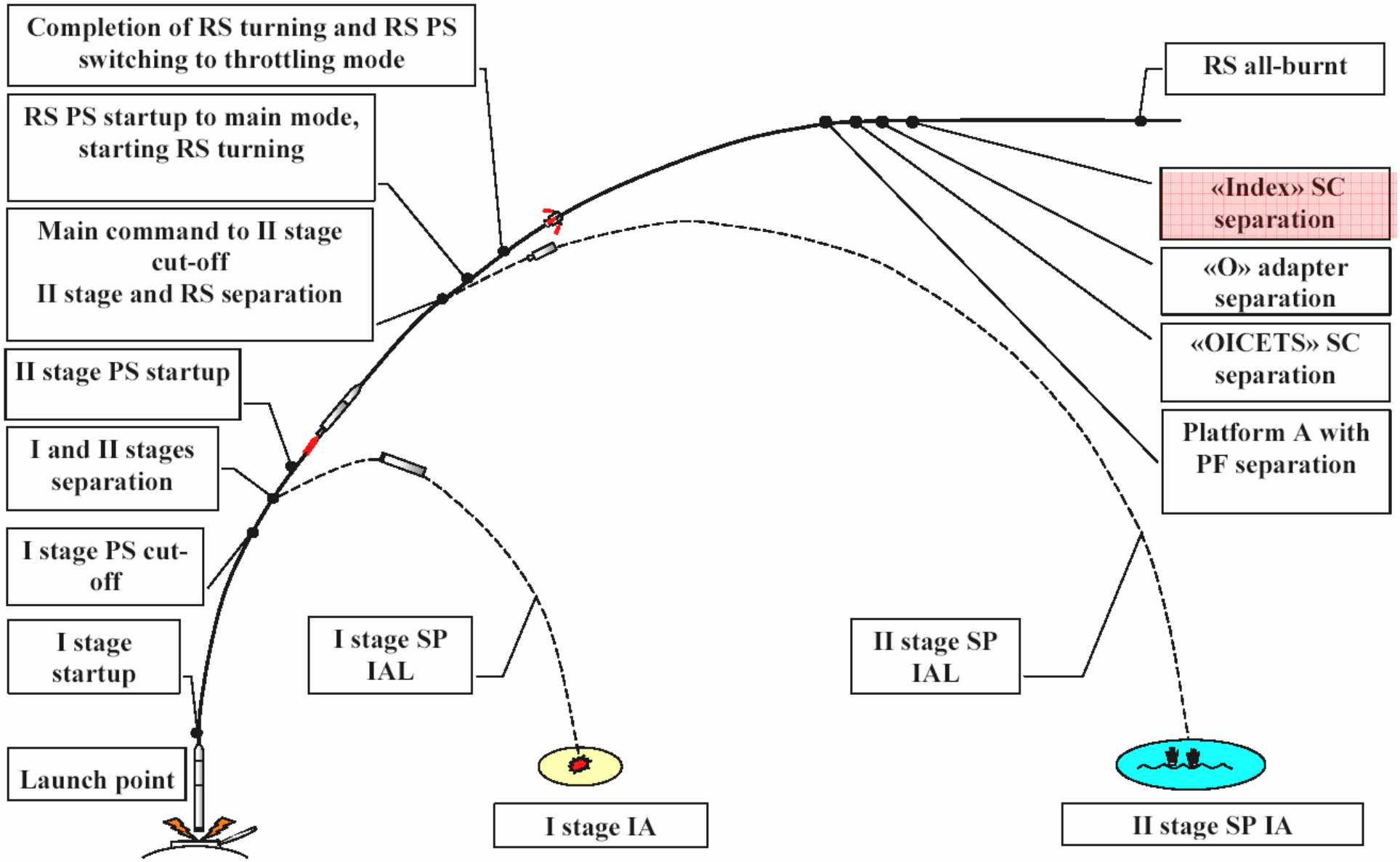
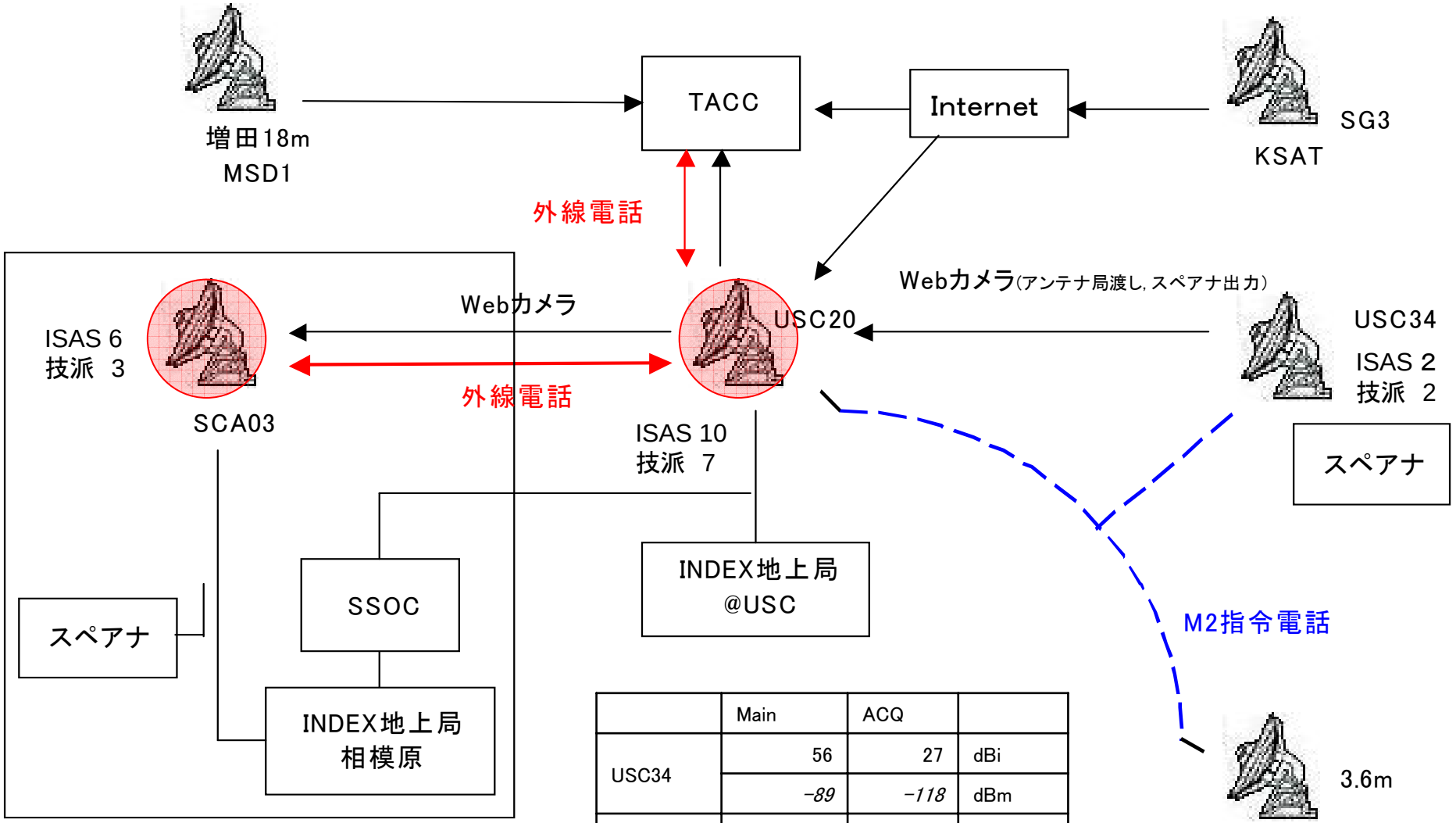
# 打ち上げ分離シーケンス

GI time: 2005-08-23 21:09:58.837 [UTC]
Separation time: 915.895 [sec] from GI



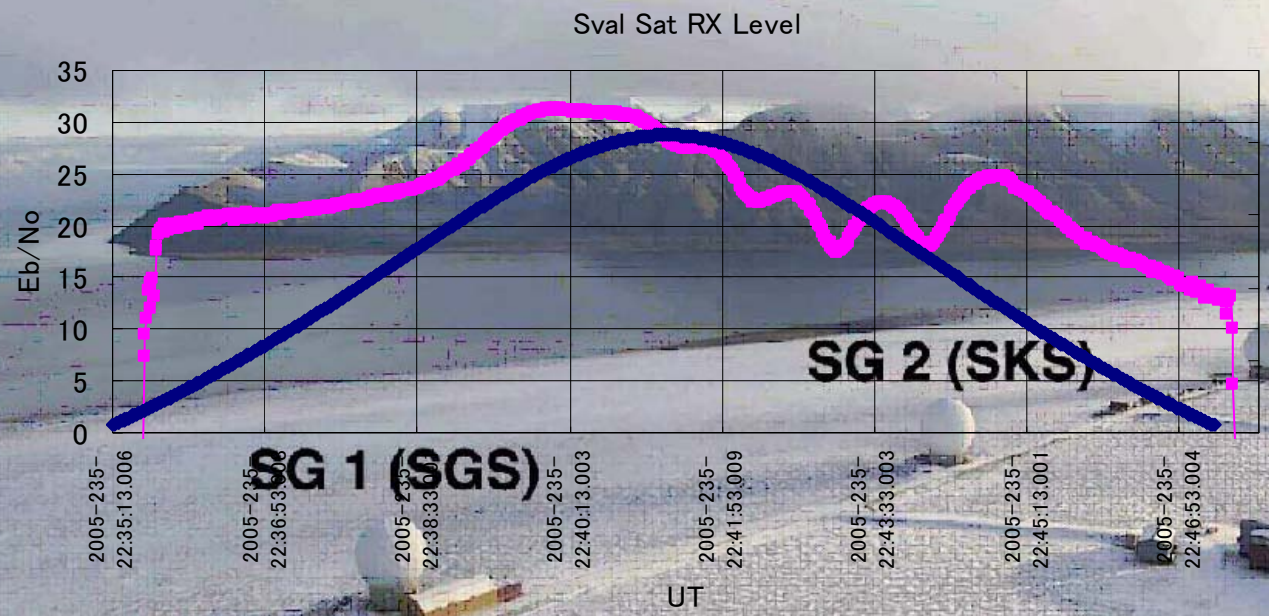
CMD送信

# 第1可視衛星捕捉体制




| | Main | ACQ | |
|---|---|---|---|
| USC34 | 56 | 27 | dBi |
| | *-89* | *-118* | dBm |
| USC20 | 52 | 28 | dBi |
| | *-93* | *-117* | dBm |

# Sval Satでの受信




SG 1 (SGS)

SG 2 (SKS)

SG 3

SG 4 (IPO)

CDA 1 (EUM)

SG 5

CDA 2 (EUM)

*6. Link budget*

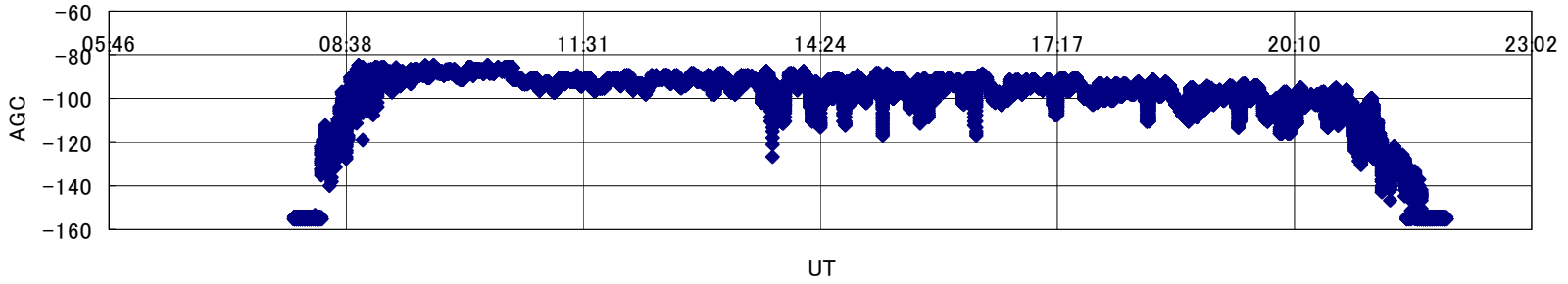
*……*

*In the case of first AOS of INDEX satellite, expected RF reception level should be between -100 and -110dBm from nominal orbit. The signal level should be indicated 15-22 count for "Signal strength". Because the attitude of satellite will not be predicted in the initial phase, we should consider about the antenna gain pattern. I do not know the side lobe level exactly, but usually about -18dB from main lobe level. Therefore, if the antenna catch the satellite by side lobe, the signal level is about -118 - -128dBm. ……*

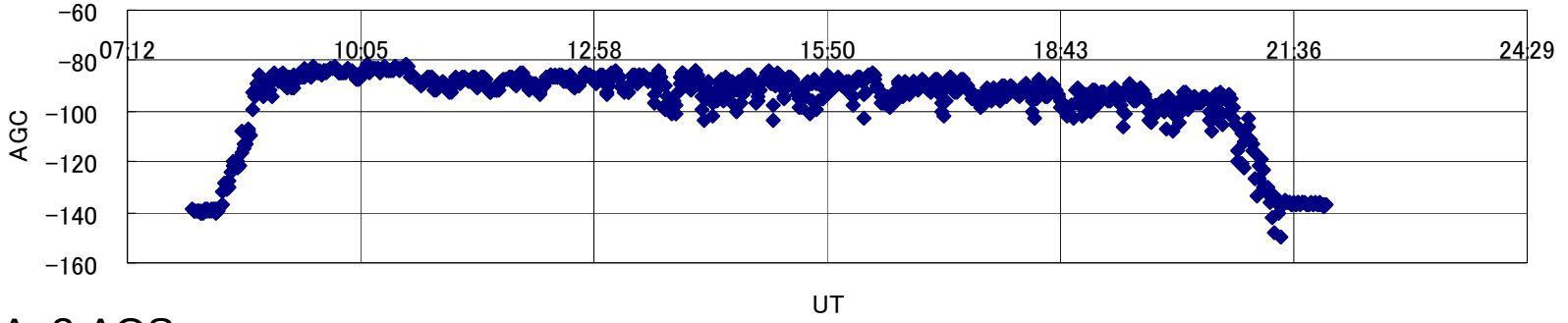
# 第1可視での受信状況

USC AOS
2005/8/24 03:08:44(UTC)

20m AGC Level

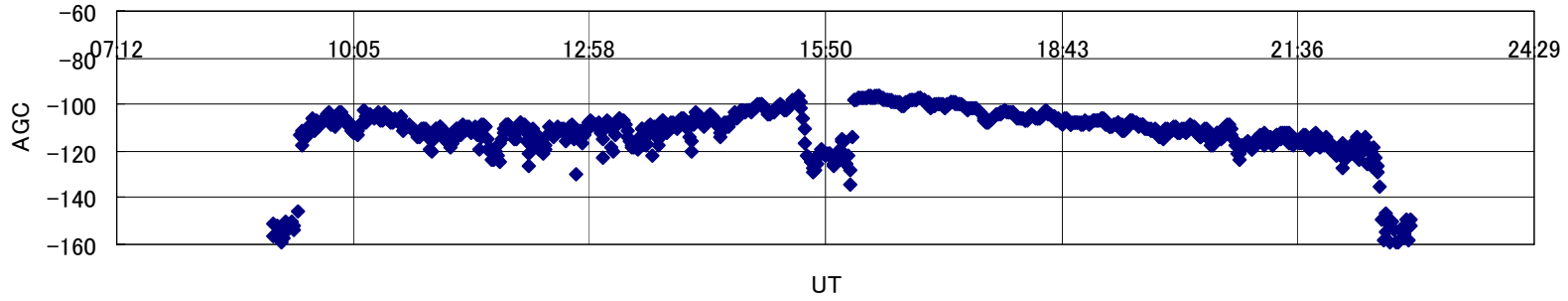



34m AGC Level

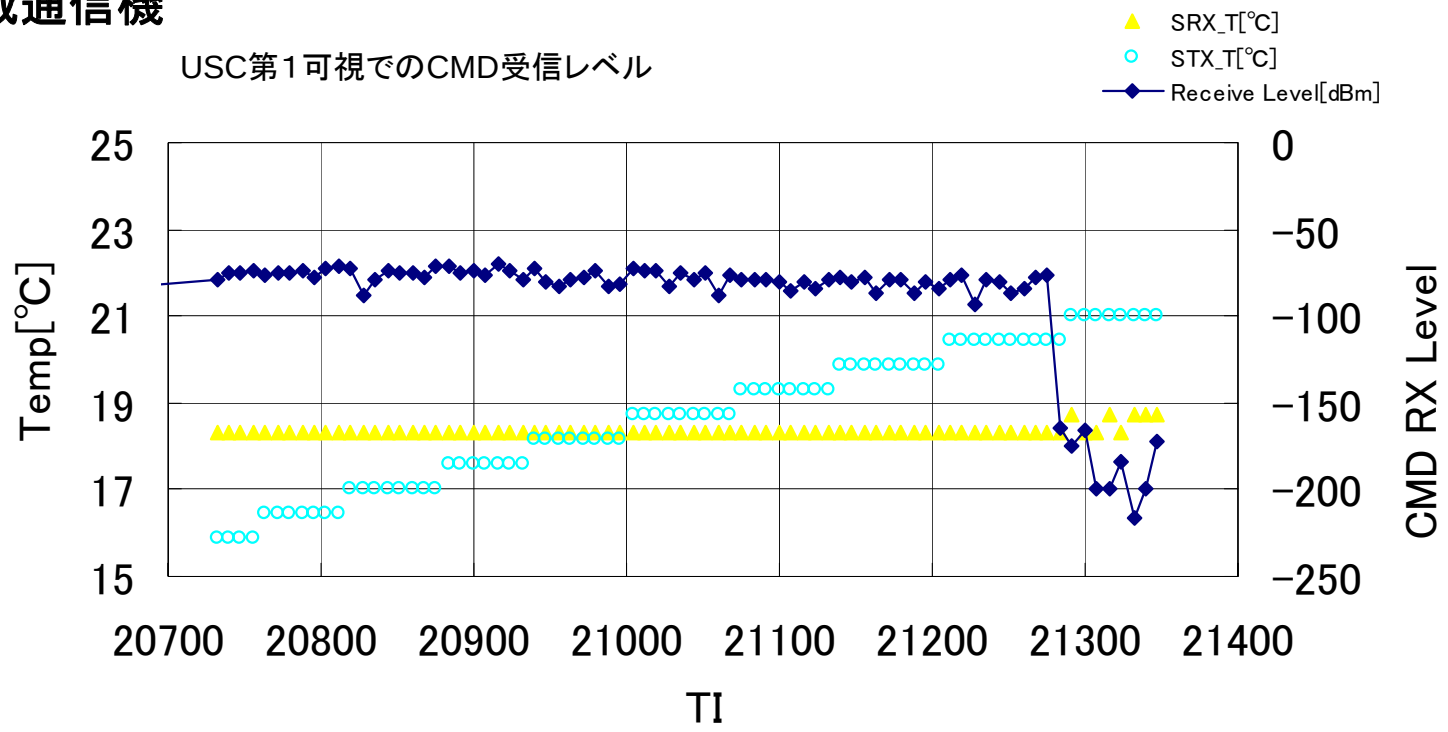



SCAo3 AOS
2005/8/24 03:09:29(UTC)

3m AGC Level



# 搭載通信機

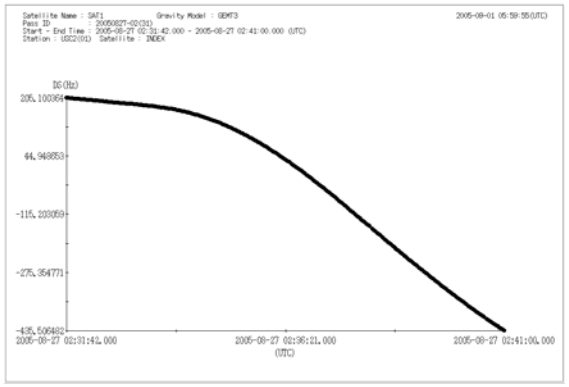


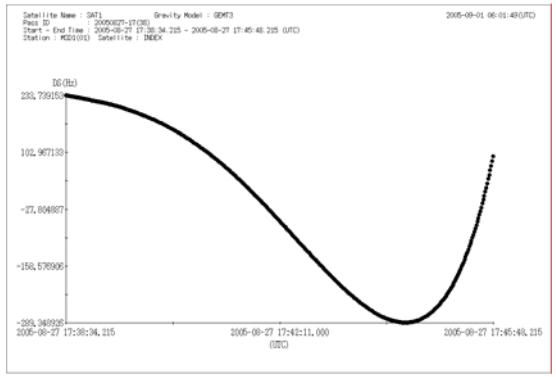

STX

出力:0.2/2W

周波数:2263.6MHz±10ppm

動作温度:-25～+60℃





# まとめ

・USC20m/34m局、GN局、相模原局が連携した衛星捕捉

<= 符号化の了解違い（コンパチテストの必要性）

・SvalSatによる初期捕捉問題なし

・GN局による角度情報による軌道決定による軌道決定

・約2週間で新設相模原局を主局とした運用に切り替え

⇒簡易局でUpP Link, SvalSatで大容量データをDown Linkする運用形態の確率