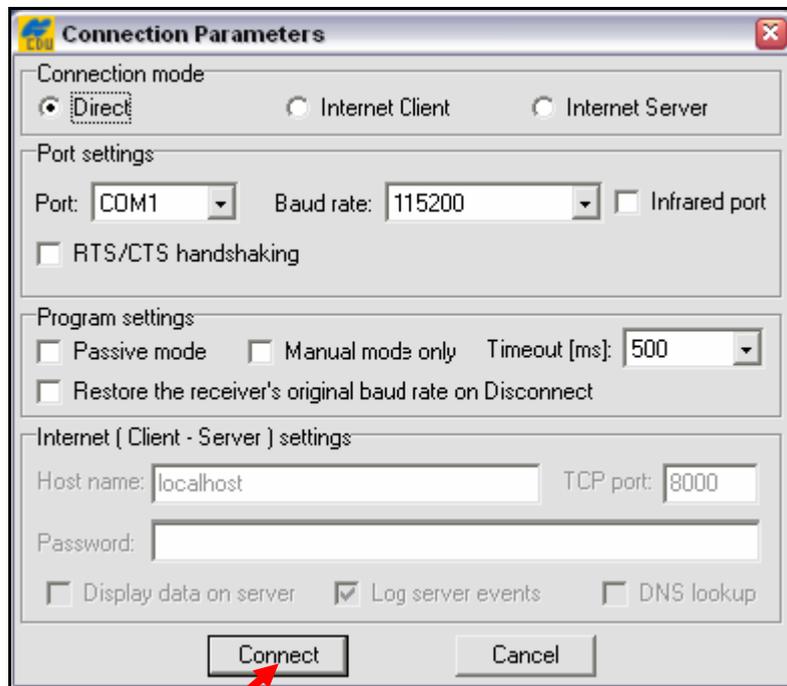
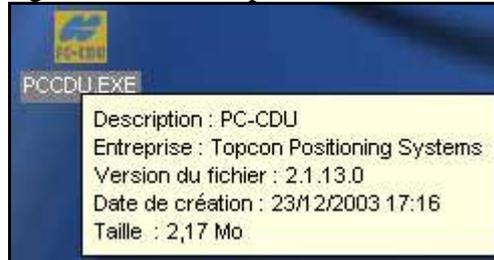




1 - Il faut disposer au préalable des scripts suivants :

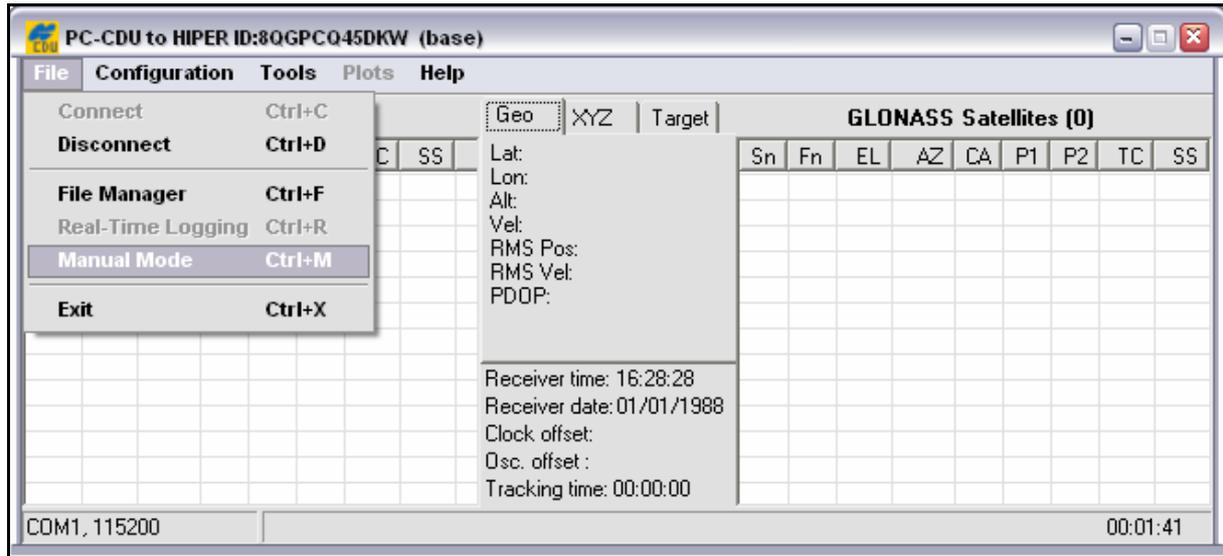
- SATEL_SETUP_ON.tpc
- SATEL_DC_9600.tpc
- SATEL_SETUP_OFF.tpc

2 - Lancer le Logiciel PC-CDU après avoir connecté l'Hyper au PC

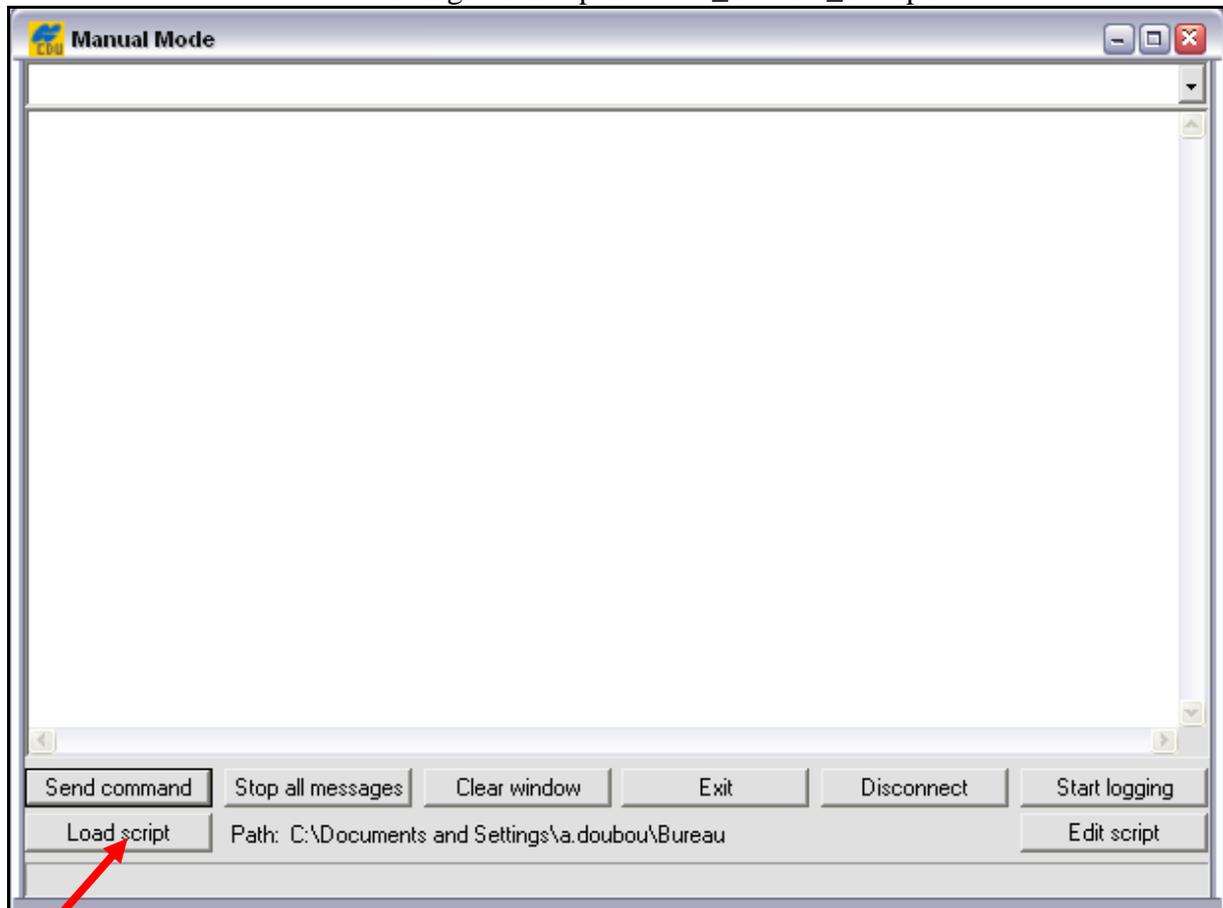


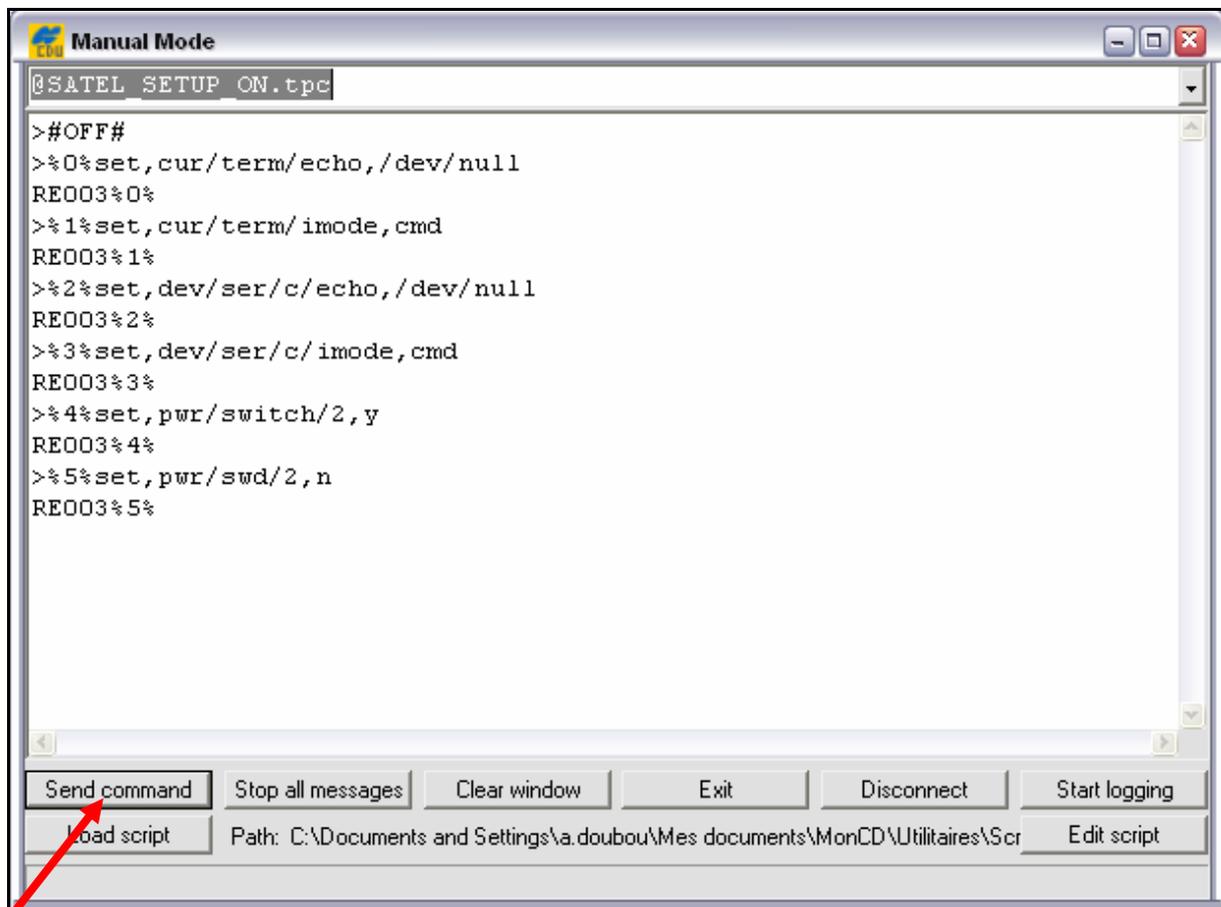
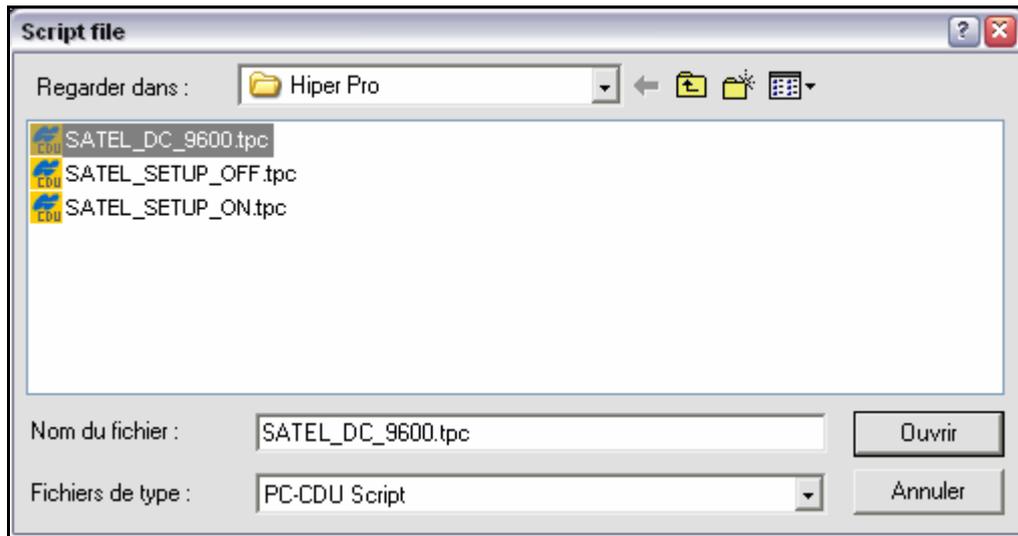


3 - Passer en Manual Mode



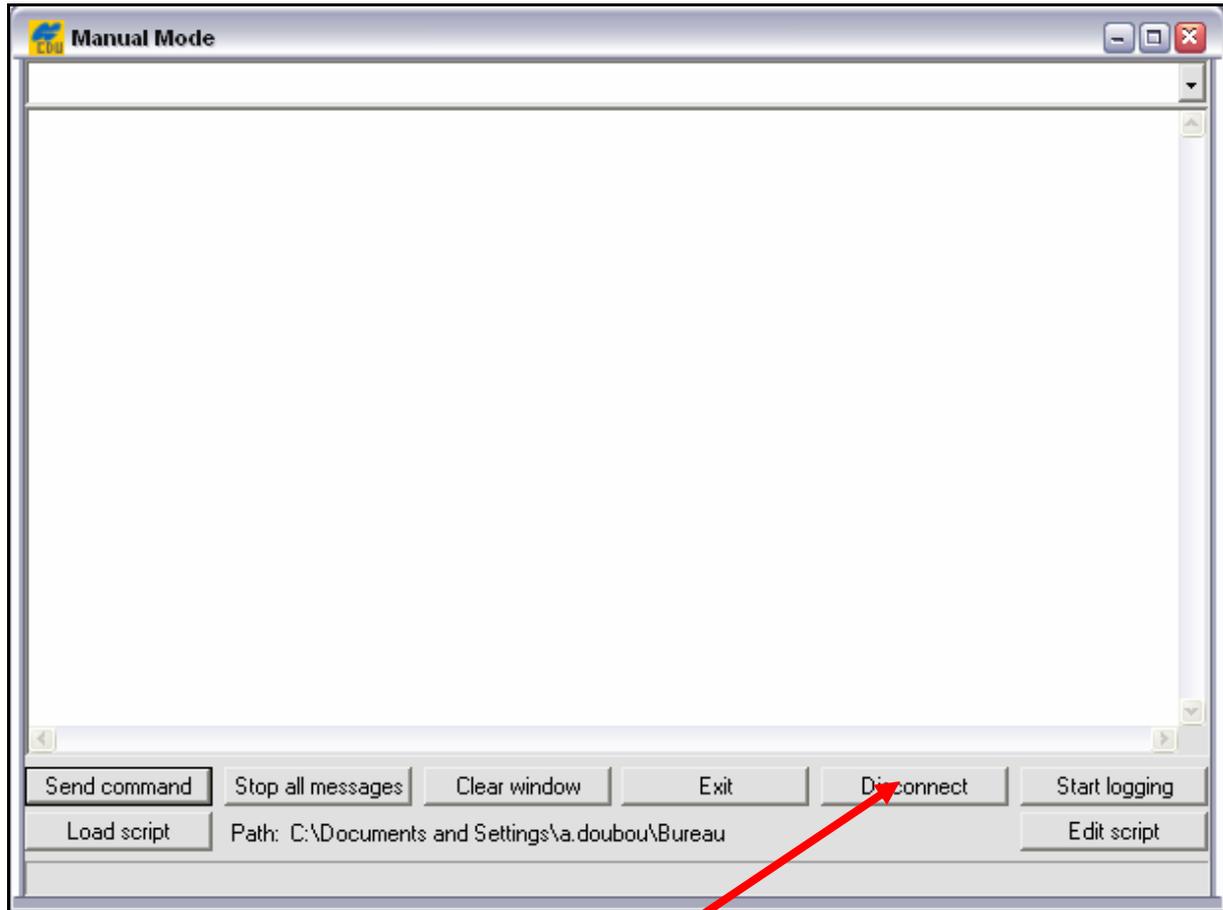
4 - Charger le Script SATEL_SETUP_ON.tpc



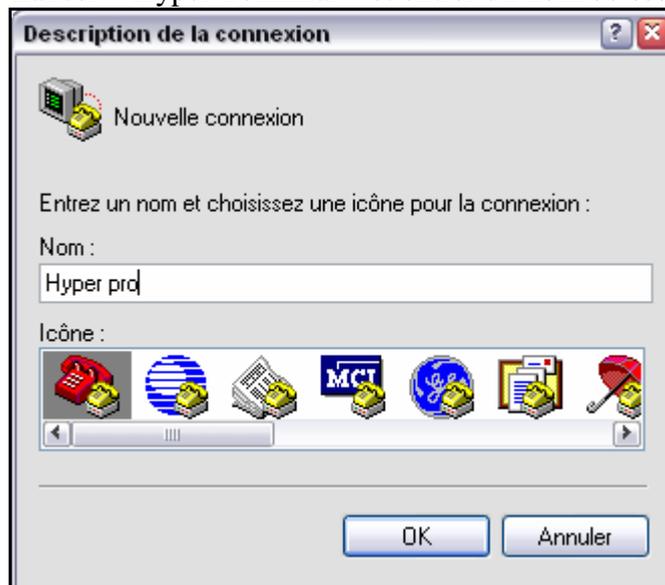


5 - Charger ensuite de la même manière le script SATEL_DC_9600.tpc

6 - Déconnecter l'instrument



7 - Lancer « Hyper Terminal » et entrer un nom de session



8 - Choisir le port de communication

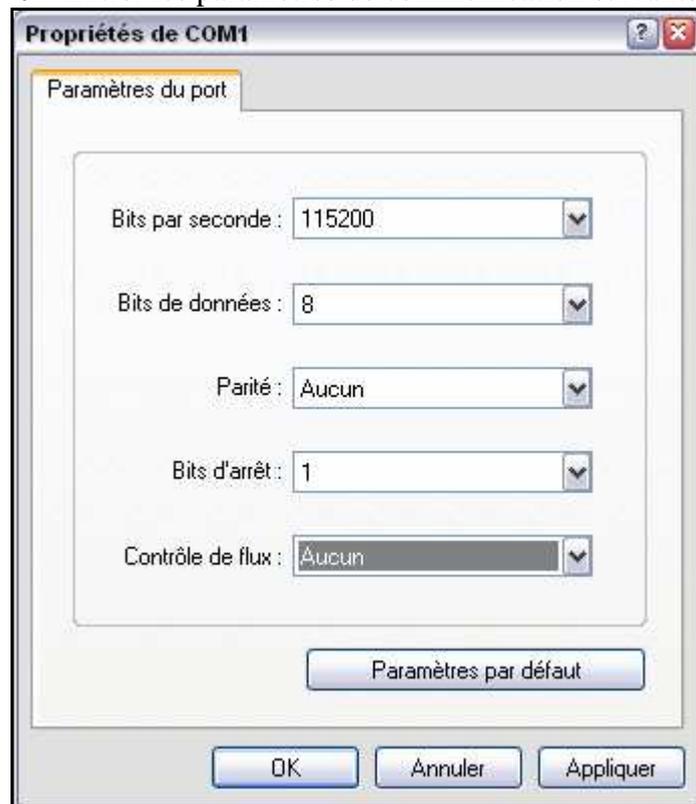


The 'Connexion' dialog box is titled 'Hyper pro' and contains the following fields:

- Pays/région : France (33)
- Indicatif régional : (empty)
- Numéro de téléphone : (empty)
- Se connecter en utilisant : COM1

Buttons: OK, Annuler

9 - Entrer les paramètres de communication suivants

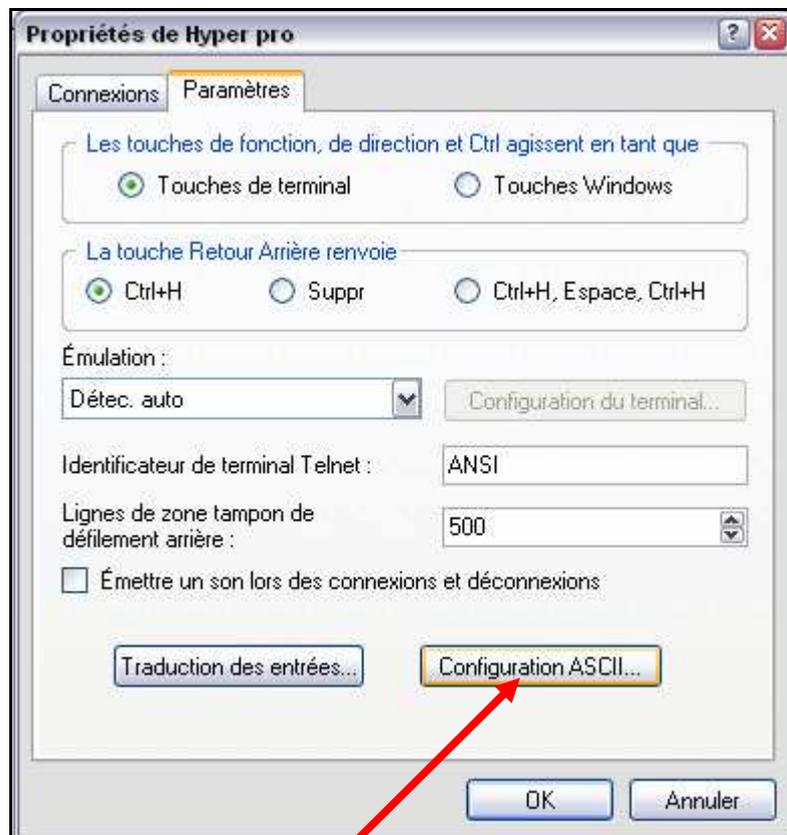
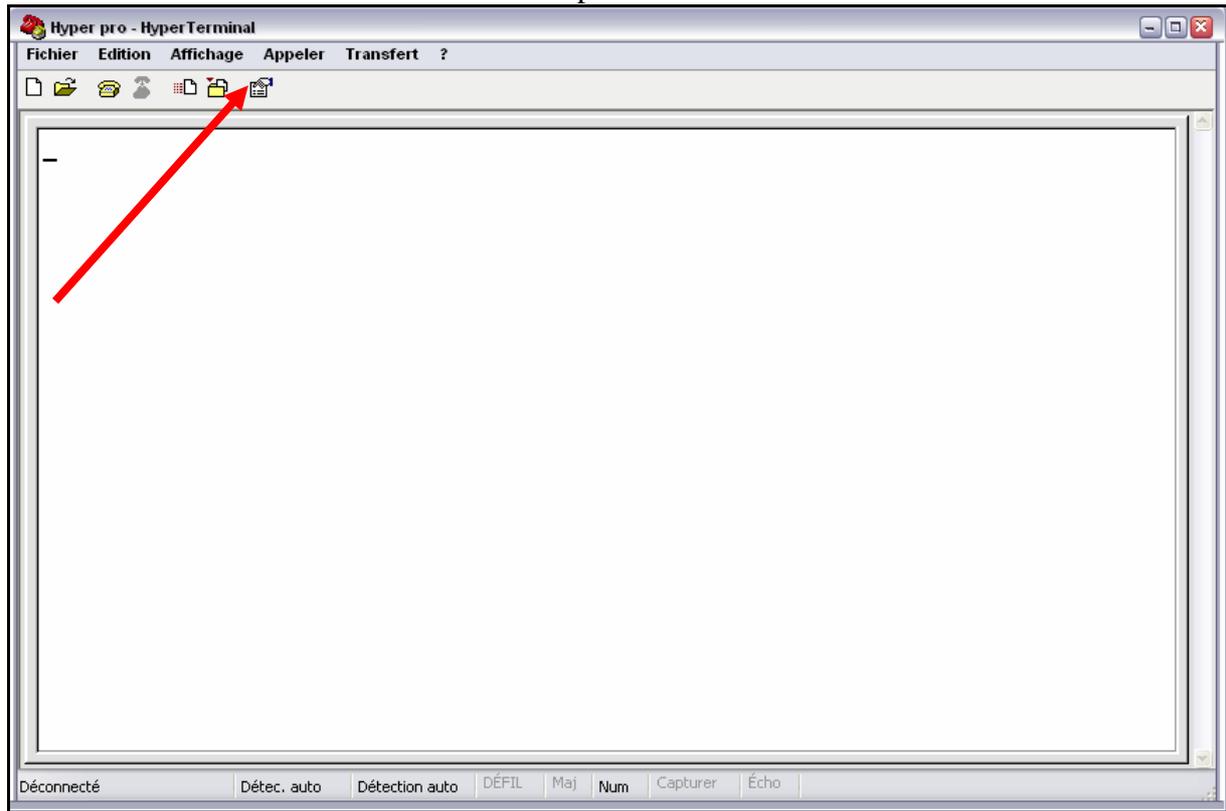


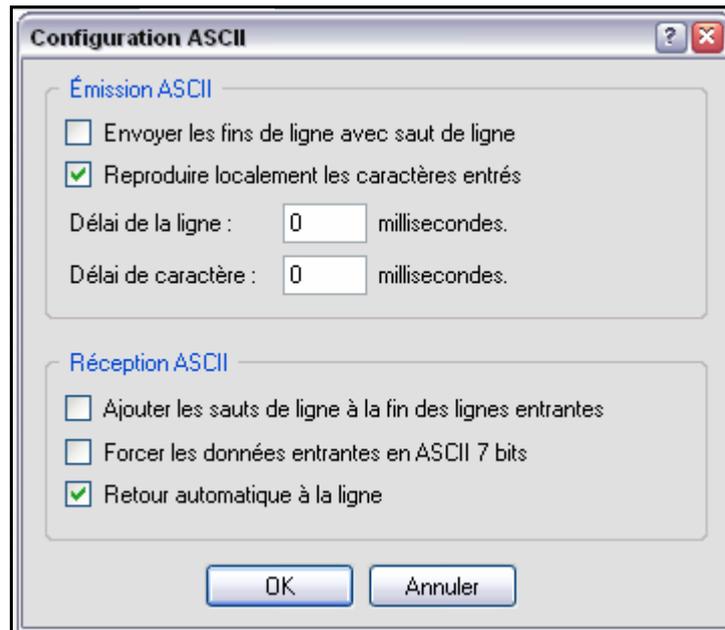
The 'Propriétés de COM1' dialog box shows the following communication parameters:

- Bits par seconde : 115200
- Bits de données : 8
- Parité : Aucun
- Bits d'arrêt : 1
- Contrôle de flux : Aucun

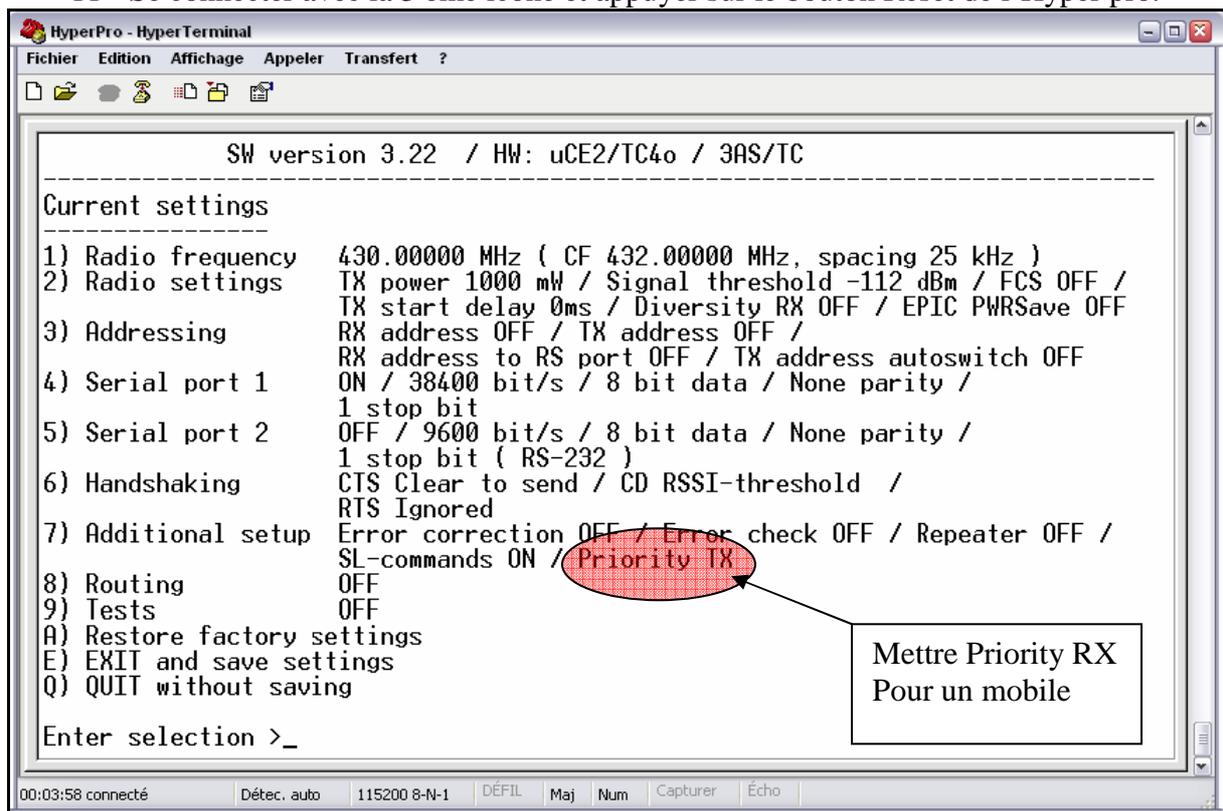
Buttons: Paramètres par défaut, OK, Annuler, Appliquer

10 - Modifier les paramètres de connexion ASCII.

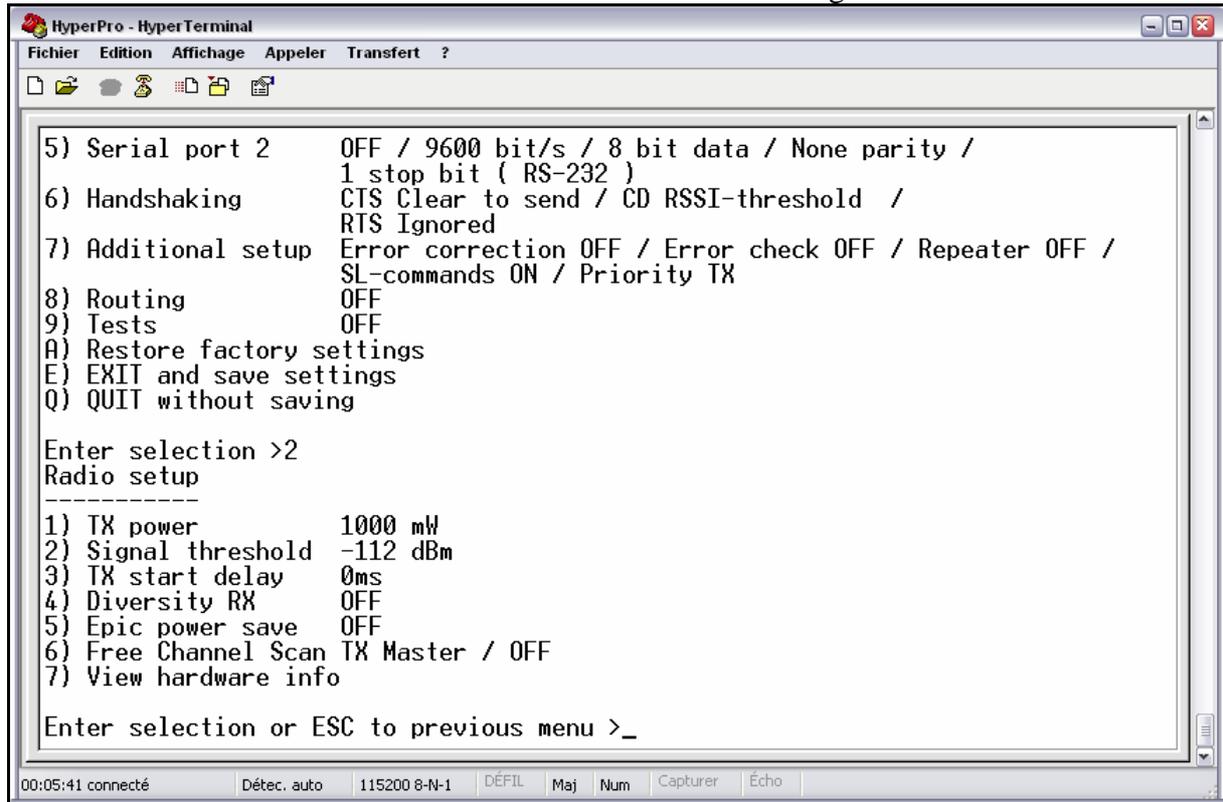




11 - Se connecter avec la 3 ème icône et appuyer sur le bouton Reset de l'Hyper pro.



12 - Faire 2 : Radio Settings



```
HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
[Icons]

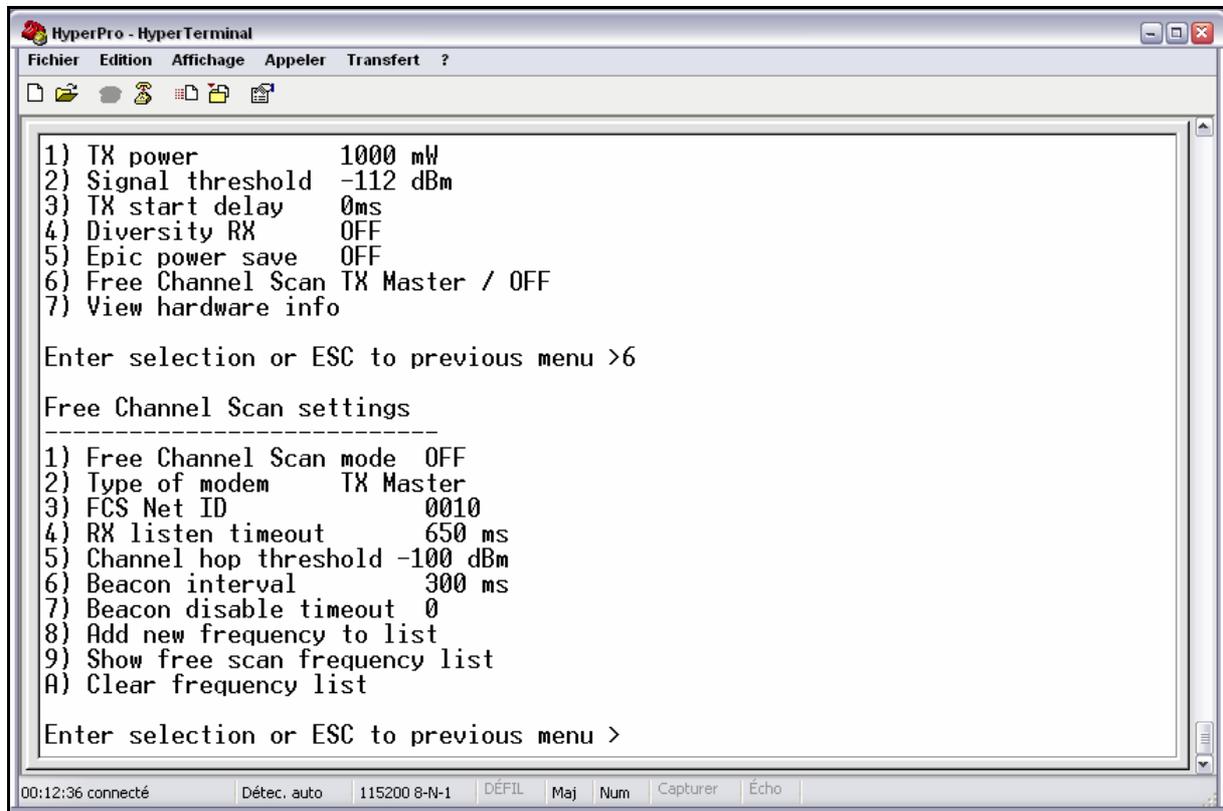
5) Serial port 2      OFF / 9600 bit/s / 8 bit data / None parity /
1 stop bit ( RS-232 )
6) Handshaking      CTS Clear to send / CD RSSI-threshold /
RTS Ignored
7) Additional setup  Error correction OFF / Error check OFF / Repeater OFF /
SL-commands ON / Priority TX
8) Routing          OFF
9) Tests            OFF
A) Restore factory settings
E) EXIT and save settings
Q) QUIT without saving

Enter selection >2
Radio setup
-----
1) TX power          1000 mW
2) Signal threshold -112 dBm
3) TX start delay   0ms
4) Diversity RX     OFF
5) Epic power save  OFF
6) Free Channel Scan TX Master / OFF
7) View hardware info

Enter selection or ESC to previous menu >_

00:05:41 connecté   Détec. auto   115200 8-N-1   DÉFIL   Maj   Num   Capturer   Écho
```

13 - Faire 6: Free channel Scan TX Master / OFF



```
HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
[Icons]

1) TX power          1000 mW
2) Signal threshold -112 dBm
3) TX start delay   0ms
4) Diversity RX     OFF
5) Epic power save  OFF
6) Free Channel Scan TX Master / OFF
7) View hardware info

Enter selection or ESC to previous menu >6

Free Channel Scan settings
-----
1) Free Channel Scan mode OFF
2) Type of modem      TX Master
3) FCS Net ID        0010
4) RX listen timeout  650 ms
5) Channel hop threshold -100 dBm
6) Beacon interval    300 ms
7) Beacon disable timeout 0
8) Add new frequency to list
9) Show free scan frequency list
A) Clear frequency list

Enter selection or ESC to previous menu >

00:12:36 connecté   Détec. auto   115200 8-N-1   DÉFIL   Maj   Num   Capturer   Écho
```

- 14 - Laisser ou mettre le Free Channel Scan mode en OFF
 15 - Mettre soit TX Master pour la base (RX slave dans le cas d'un mobile)

```

HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
Free Channel Scan settings
-----
1) Free Channel Scan mode  OFF
2) Type of modem          TX Master
3) FCS Net ID              0010
4) RX listen timeout      650 ms
5) Channel hop threshold  -100 dBm
6) Beacon interval        300 ms
7) Beacon disable timeout  0
8) Add new frequency to list
9) Show free scan frequency list
A) Clear frequency list

Enter selection or ESC to previous menu >2

FCS modem type
-----
1) TX Master
2) RX Slave
3) RX/TX Repeater
4) TX Master + repeater
5) RX Slave + repeater

Enter selection or ESC to previous menu >_
00:15:10 connecté   Détec. auto   115200 8-N-1   DÉFIL   Maj   Num   Capturer   Écho
  
```

- 16 - Faire esc jusqu'au menu principal puis faire :
 3 : addressing.

```

HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
6) Handshaking          CTS Clear to send / CD RSSI-threshold /
RTS Ignored
7) Additional setup     Error correction OFF / Error check OFF / Repeater OFF /
SL-commands ON / Priority TX
8) Routing              OFF
9) Tests                OFF
A) Restore factory settings
E) EXIT and save settings
Q) QUIT without saving

Enter selection >3
Addressing setup
Toggle ON/OFF values. Current value shown.
-----
1) RX address           OFF
2) TX address           ON 0000/0000
3) RX address to RS port  OFF
4) Change primary RX address
5) Change primary TX address
6) Change secondary RX address
7) Change secondary TX address
8) TX address autoswitch  OFF

Enter selection or ESC to previous menu >
00:18:12 connecté   Détec. auto   115200 8-N-1   DÉFIL   Maj   Num   Capturer   Écho
  
```



17 - Mettre TX address ON 0000/0000 (pour un mobile RX address ON 0000/0000), laisser OFF sur les autres.

```
HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
-----
1) RX address          OFF
2) TX address          ON 0000/0000
3) RX address to RS port  OFF
4) Change primary RX address
5) Change primary TX address
6) Change secondary RX address
7) Change secondary TX address
8) TX address autoswitch  OFF

Enter selection or ESC to previous menu >2
Addressing setup
Toggle ON/OFF values. Current value shown.
-----
1) RX address          OFF
2) TX address          OFF
3) RX address to RS port  OFF
4) Change primary RX address
5) Change primary TX address
6) Change secondary RX address
7) Change secondary TX address
8) TX address autoswitch  OFF

Enter selection or ESC to previous menu >
```

00:19:08 connecté Détec. auto 115200 8-N-1 DÉFIL Maj Num Capturer Écho

```
HyperPro - HyperTerminal
Fichier  Edition  Affichage  Appeler  Transfert  ?
-----
6) Handshaking        CTS Clear to send / CD RSSI-threshold /
                       RTS Ignored
7) Additional setup    Error correction OFF / Error check OFF / Repeater OFF /
                       SL-commands ON / Priority TX
8) Routing             OFF
9) Tests               OFF
A) Restore factory settings
E) EXIT and save settings
Q) QUIT without saving

Enter selection >3
Addressing setup
Toggle ON/OFF values. Current value shown.
-----
1) RX address          OFF
2) TX address          ON 0000/0000
3) RX address to RS port  OFF
4) Change primary RX address
5) Change primary TX address
6) Change secondary RX address
7) Change secondary TX address
8) TX address autoswitch  OFF

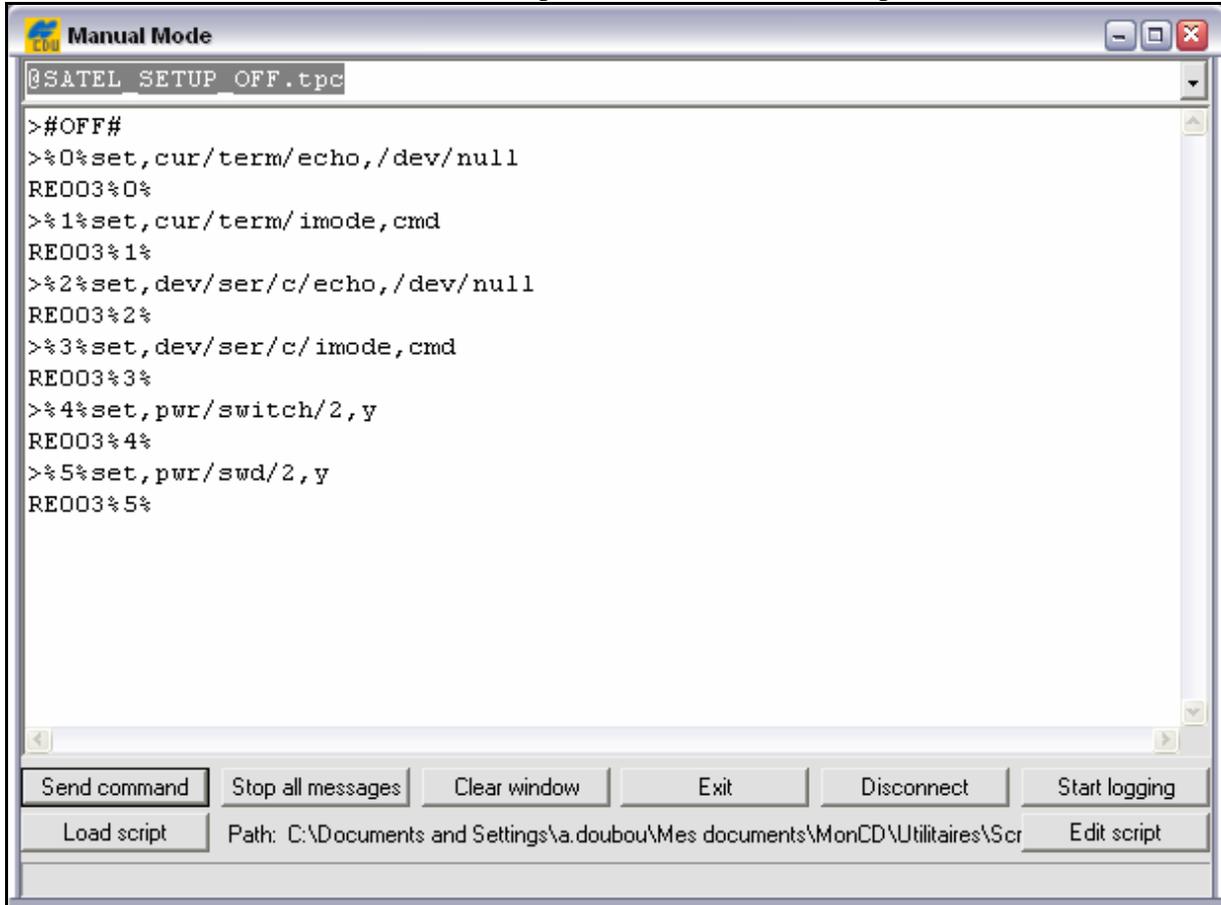
Enter selection or ESC to previous menu >
```

00:25:29 connecté Détec. auto 115200 8-N-1 DÉFIL Maj Num Capturer Écho

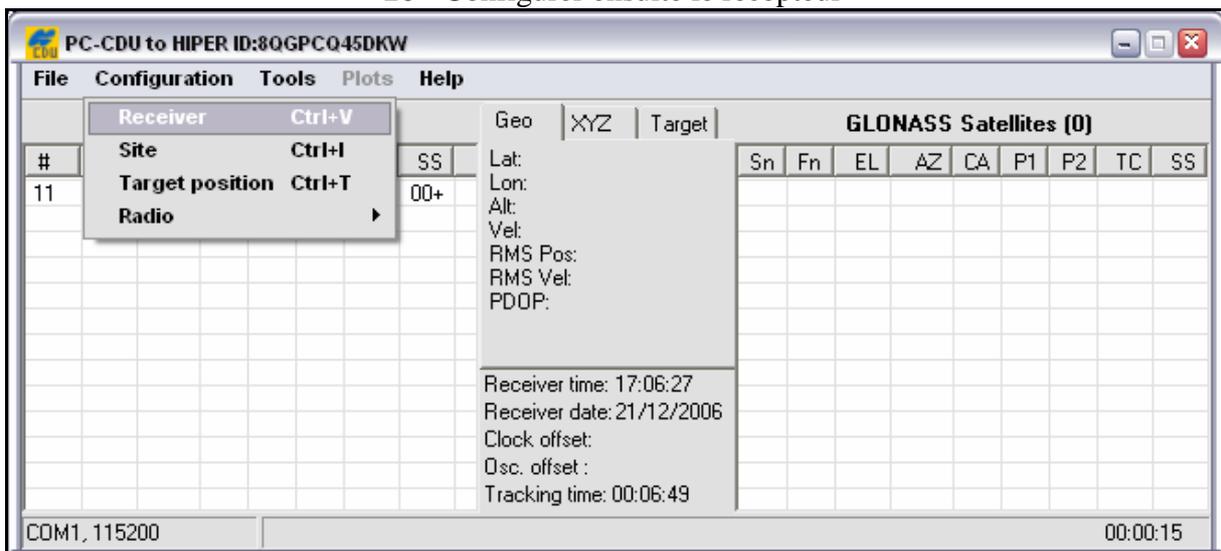


- 18 - Faire esc jusqu'au menu principal. Passer les fréquences à 430.
1 : Radio frequency.
E : Sauvegarder puis sortir.

- 19 - Déconnecter le Hyper de « l'Hyperterminal » puis se reconnecter à « PC-CDU »
Lancer le script SATEL_SETUP_OFF.tpc



- 20 - Configurer ensuite le récepteur



Receiver Configuration

General | MINTER | Positioning | Base | Rover | Ports | Events | Advanced

Elevation mask (degrees)
Terminal Elevation Mask : 5

Antenna
 Internal
 External
 Auto

Antenna Status (read only)
 Current Input : int
 Ext. DC Status : off

Temperature (Celsius degrees)
Board temperature : 37.5

Power management
 Power Mode : Auto
 Current Mode : b

Charger
 Mode : Auto
 Speed :
 Current Mode : off
 Current (Amp) :

Voltages (volts)
 External :
 On Board : 7.1
 Battery A : 7.41
 Battery B : 7.19
 Charger : 7.17
 On Ports : 11.95

Power output modes
 Ports : On
 Slots : On

Turn on/off Slots
 Slot 2 (C)
 Slot 3 (B)
 Slot 4 (D)

Enable Low Power Mode

Refresh Apply

OK Exit Save Set all parameters to defaults

21 - Choisir « **RTK fixed** » pour un mobile et « **Standalone** » pour une base.

Receiver Configuration

General | MINTER | Positioning | Base | Rover | Ports | Events | Advanced

Positioning Mode
 Standalone
 DGPS (Code Differential)
 RTK Float
 RTK Fixed

Enable Solutions
 Standalone
 DGPS
 RTK Float
 RTK Fixed

Satellite management
 Satellites tracked
 GPS GLONASS
 Satellites used in pos.
 GPS GLONASS

Positioning Masks
 Elevation mask (degree) : 5
 PDOP mask : 30.00

Positioning System
 GPS
 GLONASS

Measurements Used
 CA/L1
 P/L1
 P/L2
 Iono-Free

GPS | GLONASS | WAAS

prn	lock	use									
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	26	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	28	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	29	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	23	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	32	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

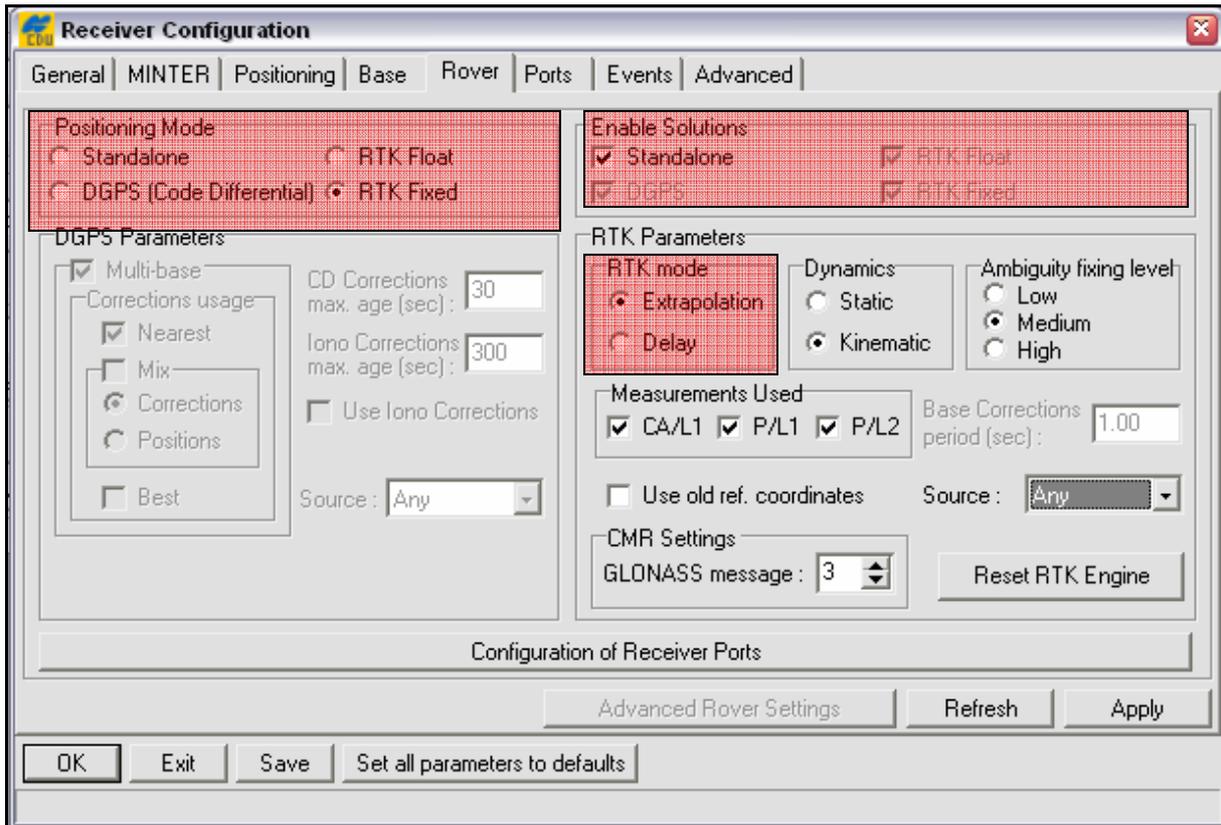
RAIM Enabled
 Alarm : Non-precision
 Alarm limit (m) : 555.6

Current Datum : W84
 Datum Parameters

Iono-Correction
 Tropo-Correction

Advanced Positioning Settings Refresh Apply

OK Exit Save Set all parameters to defaults



Receiver Configuration

General | MINTER | Positioning | Base | Rover | Ports | Events | Advanced

Positioning Mode

Standalone RTK Float
 DGPS (Code Differential) RTK Fixed

Enable Solutions

Standalone RTK Float
 DGPS RTK Fixed

DGPS Parameters

Multi-base
 Corrections usage:
 Nearest
 Mix
 Corrections
 Positions
 Best

CD Corrections max. age (sec): 30
 Iono Corrections max. age (sec): 300
 Use Iono Corrections
 Source: Any

RTK Parameters

RTK mode

Extrapolation
 Delay

Dynamics
 Static
 Kinematic

Ambiguity fixing level
 Low
 Medium
 High

Measurements Used
 CA/L1 P/L1 P/L2
 Use old ref. coordinates Base Corrections period (sec): 1.00
 Source: Any

CMR Settings
 GLONASS message: 3 **Reset RTK Engine**

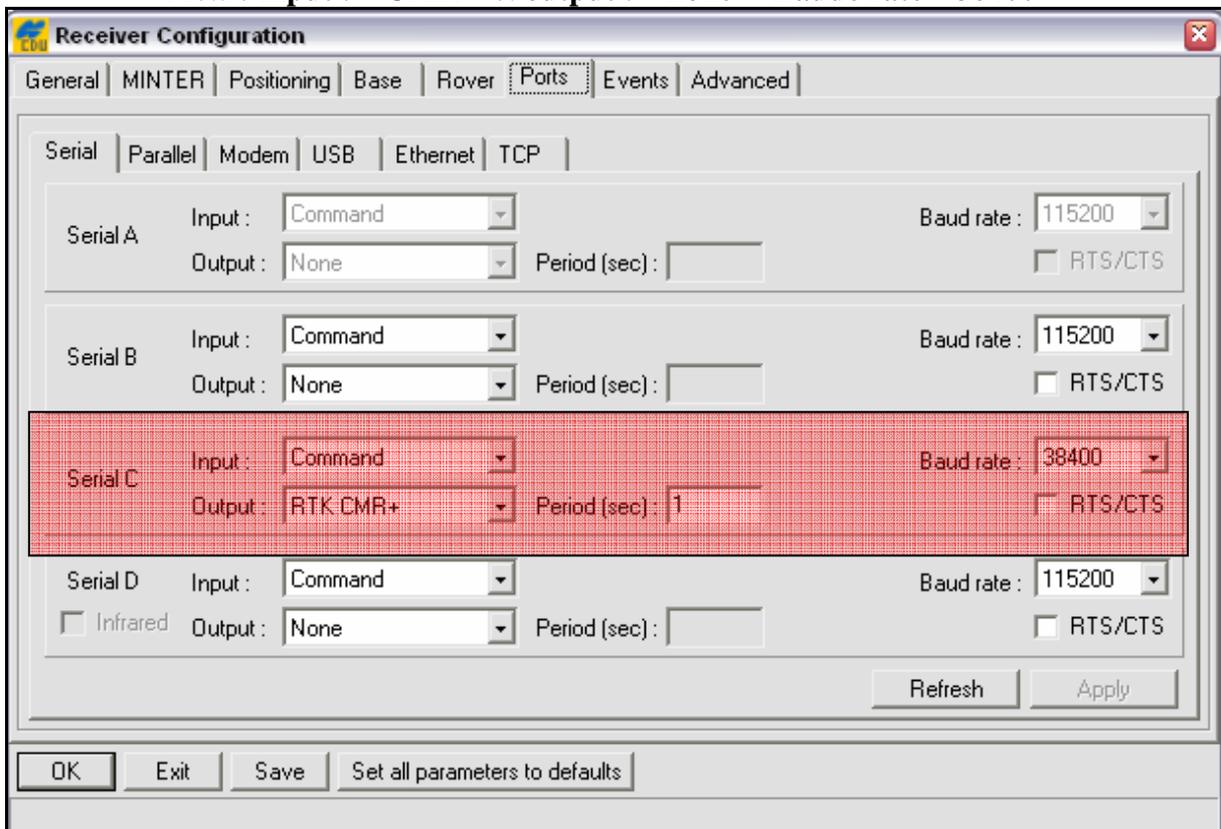
Configuration of Receiver Ports

Advanced Rover Settings Refresh Apply

OK Exit Save Set all parameters to defaults

22 - Configuration du port C :

La configuration ci-dessous concerne une base. Pour un mobile :
 Mettre **input** : « CMR » et **output** : « none » **Baude rate** « 38400 »



Receiver Configuration

General | MINTER | Positioning | Base | Rover | Ports | Events | Advanced

Serial | Parallel | Modem | USB | Ethernet | TCP

Serial A Input : Command Baud rate : 115200
 Output : None Period (sec) : RTS/CTS

Serial B Input : Command Baud rate : 115200
 Output : None Period (sec) : RTS/CTS

**Serial C Input : Command Baud rate : 38400
 Output : RTK-CMR+ Period (sec) : 1 RTS/CTS**

Serial D Input : Command Baud rate : 115200
 Infrared Output : None Period (sec) : RTS/CTS

Refresh Apply

OK Exit Save Set all parameters to defaults

23 - Onglet Advanced

