

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



🐔 Connection Parameters 🛛 🔊
Connection mode
Direct C Internet Client C Internet Server
Port settings
Port: COM1 🔹 Baud rate: 115200 💽 Infrared port
TRTS/CTS handshaking
Program settings
🏳 Passive mode 📄 Manual mode only Timeout [ms]: 500 💽
Restore the receiver's original baud rate on Disconnect
Internet (Client - Server) settings
Host name: localhost TCP port: 8000
Password:
🔽 Display data on server 🔽 Log server events 🛛 🗖 DNS lookup
Connect Cancel



3 - Passer en Manual Mode

🐔 PC-CDU to HIPER ID	8QGPC	245DKW	(base)								-	
File Configuration	Tools	Plots	Help										
Connect	Ctrl+C	1		Geo XYZ Target			GLO	NASS	Sate	ellite	s (0)		
Disconnect	Ctrl+D	C C	SS	Lat:	Sn	Fn	EL	AZ	CA	P1	P2	TC	SS
File Manager	Ctrl+F			Lon: Alt									
Real-Time Logging	Ctrl+R			Vel:									
Manual Mode	Ctrl+M			RMS Pos: RMS Vel:									
Exit	Ctrl+X			PDOP:									
				Receiver time: 16:28:28 Receiver date: 01/01/1988 Clock offset: Osc. offset : Tracking time: 00:00:00									
COM1, 115200												00:01:	.41

4 - Charger le Script SATEL_SETUP_ON.tpc

🐔 Manual Mode		- 🗆 🛛
		-
<u><</u>		<u>></u>
Send command	Stop all messages Clear window Exit Disconnect	Start logging
Load script	Path: C:\Documents and Settings\a.doubou\Bureau	Edit script



Script file				? 🛛
Regarder dans :	🗀 Hiper Pro	• € 💣	!!!	
SATEL_DC_9600:	tpc			
	FF.tpc			
SATEL_SETUP_O	N.tpc			
Nom du fichier :	SATEL_DC_9600.tpc			Ouvrir
Fichiers de type :	PC-CDU Script		-	Annuler
	l' e en e contr.			

💏 Manual Mode	- 🗆 🛛
@SATEL_SETUP_ON.tpc	-
>#OFF#	<u> </u>
>%0%set,cur/term/echo,/dev/null	
REOU3%0%	
RE003%1%	
>%2%set,dev/ser/c/echo,/dev/null	
RE003%2%	
>%3%set,dev/ser/c/imode,cmd	
NEUU3%3%	
RE003%4%	
>%5%set,pwr/swd/2,n	
RE003%5%	
	~
Send command Stop all messages Clear window Exit Disconnect Sta	rt logging
Cad script Path: C:\Documents and Settings\a.doubou\Mes documents\MonCD\Utilitaires\ScrE	lit script

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



6 - Déconnecter l'instrument

🐔 Manual Mode	- 🗆 🛛
	-
	<u>~</u>
	V
Send command Stop all messages Clear window Exit Disconnect Star	rt logging
Load script Path: C:\Documents and Settings\a.doubou\Bureau Ed	lit script

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

Description de la connexio	on 🛛 🔋 📓
Nouvelle connexion	
Entrez un nom et choisissez	une icône pour la connexion :
Nom :	
Hyper pro	
lcône :	
	× 😵 🎯 🎘
	OK Annuler



8 - Choisir le port de communication

Connexion	2 🛛
Hyper pro	
Entrez les détails du numéro	de téléphone que vous voulez composer :
Pays/région :	France (33)
Indicatif régional :	
Numéro de téléphone :	
Se connecter en utilisant :	COM1
	OK Annuler

9 - Entrer les paramètres de communication suivants

ropriétés de COM1		?
Paramètres du port		
Bits par seconde :	115200	-
Bits de données :	8	-
Parité :	Aucun	~
Bits d'arrêt :	1	~
Contrôle de flux :	Aucun	~
	Paramètres par défai	ut
	K Annuler .	Appliquer



	er pro - Hy	perTermin	al									- 0	×
Fichier	Edition	Affichage	Appeler	Transfert	?								
0 🛩	8 🎽												_
Déconne	té	1	Détec, auto	Détection	auto DÉFIL	Maj	Num	Capturer	Écho				

10 - Modifier les paramètres de connexion ASCII.

5
tion et Ctrl agissent en tant que —
Touches Windows
🔘 Ctrl+H, Espace, Ctrl+H
Configuration du terminal
ANSI
500
ons et déconnexions
Lonfiguration ASUI
OK Annular



Configuration ASCII
Émission ASCII
Envoyer les fins de ligne avec saut de ligne
Reproduire localement les caractères entrés
Délai de la ligne : 0 millisecondes.
Délai de caractère : 0 millisecondes.
Réception ASCII ☐ Ajouter les sauts de ligne à la fin des lignes entrantes ☐ Forcer les données entrantes en ASCII 7 bits ☑ Retour automatique à la ligne
OK Annuler

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

Fichier Edition Affichage Appeler Transfert ?	
SW version 3.22 / HW: uCE2/TC4o / 3AS/TC	
Current settings	
1) Radio frequency 2) Radio settings X power 1000 mW / Signal threshold -112 dBm / FCS OFF / X start delay 0ms / Diversity RX OFE / FDC PWRSaue OFE	
3) Addressing RX address OFF / TX address OFF / BX address to RS port OFF / TX address autoswitch OFF	
4) Serial port 1 ON / 38400 bit/s / 8 bit data / None parity / 1 stop bit	
5) Serial port 2 OFF / 9600 bit/s / 8 bit data / None parity /	
6) Handshaking CTS Clear to send / CD RSSI-threshold / BIS Ignored	
7) Additional setup Error correction OFF / Error check OFF / Repeater OFF / SL-commands ON / Priority TX	
8) Routing OFF	
9) Tests OFF	
H) Kestore factory settings E) EVIT and any activity RX	
() OUTT without source	
Pour un mobile	
Enter selection >_	
Défec. auto 115200 8-N-1 DÉFIL Maj Num Capturer Écho	



12 - Faire 2 : Radio Settings

🍓 HyperPro - HyperTerminal	- 🗆 🔀
Fichier Edition Affichage Appeler Transfert ?	
5) Serial port 2 OFF / 9600 bit/s / 8 bit data / None parity /	
1_stop bit (RS-232)	
6) Handshaking CIS Clear to send / CD RSSI-threshold /	
7) Additional setup Error correction OFE / Error check OFE / Repeater OFE	/
SL-commands ON / Priority TX	<i>'</i>
8) Routing OFF	
19) Tests OFF	
(H) Kestore factory settings	
0) OUIT without saving	
Enter selection >2	
Kadio setup	
1) TX power 1000 mW	
2) Signal threshold -112 dBm	
(3) 1X start delay Oms	
5) Enic nower save OFF	
6) Free Channel Scan TX Master / OFF	
7) View hardware info	
Enter collection on ESC to provide nonul λ	
Linter 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

WyperPro - HyperTerminal Fichier Edition Affichage Appeler Transfert ?	🛛	
1) TX power 1000 mW 2) Signal threshold -112 dBm 3) TX start delay 0ms 4) Diversity RX 0FF 5) Epic power save 0FF 6) Free Channel Scan TX Master / 0FF 7) View hardware info		
Enter selection or ESC to previous menu >6		
Free Channel Scan settings		
Projection - Hyperforminal Fichier Edition Affichage Appeler Transfert ? Image: Source Soure		
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			
<pre> typerPro-HyperTerminal Fichier Edition Affichage Appeler Transfert ? Free Channel Scan settings</pre>			
Fichier Edition Affichage Appeler Transfert ? Free Channel Scan settings I) 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 R) Clear frequency list Enter selection or ESC to previous menu >2 FCS modem type			
3) FCS Net ID 0010			
4) RX listen timeout 650 ms			
5) Channel hop threshold -100 dBm			
7) Beacon disable timeout A			
8) Add new frequency to list			
9) Show free scan frequency list			
H) Clear frequency list			
Enter selection or ESC to previous menu >2			
FCS modem type			
1) TX Master			
2) KX Slave 3) RX/TX Repeater			
4) TX Master + repeater			
5) RX Slave + repeater			
Enter coloction on ECC to provide nonully $($			
Enter selection or ESU 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 CIS Clear to send / CD RSSI-threshold /	
RIS Ignored	
() Haditional setup Error correction OFF / Error check OFF / Repeater U	
8) Routing OFF	
9) Tests OFF	
(H) Kestore factory settings	
0) OUTT without saving	
Enter selection >3	
Togale NN/NEE values. Current value shown	
1) RX address OFF	
2) IX address UN 0000/0000	
4) Change primary RX address	
5) Change primary TX address	
6) Change secondary RX address	
(/) Change secondary IX address	
Enter selection or ESC to previous menu >	
00:18:12 connecté Détec. auto 115200 8-N-1 DEFIL Maj Num Capturer Echo	



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 addressOFF2) TX addressON 0000/00003) RX address to RS portOFF4) Change primary RX address5) Change primary TX address6) Change secondary RX address7) Change secondary TX address8) TX address autoswitch0FFEnter selection or ESC to previous menu >2Addressing setupToggle 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 ?	
D 🖻 🖀 🥈 🗈 🎦	
6) Handshaking CTS Clear to send / CD RSSI-threshold /	
RTS Ignored	
// Hdditional setup Error correction UFF / Error check UFF /	Repeater UFF /
8) Routing OFF	
9) Tests OFF	
A) Restore factory settings	
E) EXII and save settings	
() (OII WITHOUT SAVING	
Enter selection >3	
Addressing setup	
loggle UN/UFF values. Current value shown.	
1) BX address OFF	
2) TX address ON 0000/0000	
3) RX address to RS port OFF	
4) Change primary RX address	
6) Change secondary IX address	
7) Change secondary TX address	
8) TX address autoswitch OFF	
Enter selection or ESU 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

📆 Manual Mode	- • 🛛
@SATEL_SETUP_OFF.tpc	-
>#OFF#	
>%0%set,cur/term/echo,/dev/null	
REUU3%U%	
RE003%1%	
>%2%set,dev/ser/c/echo,/dev/null	
RE003%2%	
>%3%set,dev/ser/c/imode,cmd	
XL003%3%	
RE003%4%	
>%5%set,pwr/swd/2,y	
RE003%5%	
	-
	×
Send command Stop all messages Clear window Exit Disconnect Start	logging
Load script Path: C:\Documents and Settings\a.doubou\Mes documents\MonCD\Utilitaires\Scr Edit	script

20 - Configurer ensuite le récepteur

🦷 PC	C-CDU to HIPER ID:80	QGPCQ45DK	N												
File	Configuration T	ools Plots	Help												
	Receiver	Ctrl+V	1	Geo	XYZ	Target			GLO	NASS	Sat	ellite	s (O)		
#	Site Target position Radio	Ctrl+I Ctrl+T	SS 00+	Lat: Lon: Alt: Vel: RMS V PDOP: Receive	os: el: er time: 11 er date: 21	7:06:27	Sn	Fn	EL	AZ	CA	P1	P2	TC	SS
COM1,	. 115200			LIOCK O Osc. off Trackin	rrset: 'set : g time: 00):06:49								00:00	:15



🚮 Receiver Configuration 🛛 🛛 🕅									
General MINTER Positioning Base Rover Ports Events Advanced									
Elevation mask (degrees) Terminal Elevation Mask : 5 Antenna C Internal C External Auto Temperature (Celsius degrees) Board temperature : 37.5	Power management Power Mode : Auto ▼ Current Mode : b Charger Mode : Auto ▼ Speed : ▼ Current Mode : off Current (Amp) : Power output modes Ports : On ▼ Slots : On ▼ Slots : On ▼	Voltages (volts) External : On Board : 7.1 Battery A : 7.41 Battery B : 7.19 Charger : 7.17 On Ports : 11.95 Turn on/off Slots I Slot 2 (C) I Slot 4 (D)							
	F	Refresh Apply							
OK Exit Save Set all parameters to defaul	ts								

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

🐔 Receiver Configuration			×							
General MINTER Positioning Base Rover Ports Events Advanced										
Positioning Mode C Standalone C DGPS (Code Differential) C RTK Float FTK Fixed	Enable Solutions Standalone DGPS RTK Float RTK Fixed	Satellite management Satellites tracked Satellites used in pos. Satellites used in pos.								
Positioning Masks Elevation mask (degree) : 5 PDOP mask : 30.00	Positioning System GPS GLONASS	1 V 9 V 17 V 25 V 2 V 10 V 18 V 26 V 3 V 11 V 19 V 27 V								
Alarm : Non-precision Alarm limit (m) : 555.6	Measurements Used C CA/L1 C P/L1 C P/L2 C Iono-Free	4 V V 12 V 20 V V 28 V V 5 V V 13 V V 21 V 29 V V 6 V V 14 V V 22 V V 30 V V 7 V 15 V 23 V V 31 V V								
Current Datum : W84 💽 Datum Parameters	✓ Iono-Correction ✓ Tropo-Correction	All to lock None to lock All to use None to use								
Advanced Positioning Settings Refresh Appl										
OK Exit Save	Set all parameters to defau	llts								



Receiver Configuration				
General MINTER Positioning Base Rover Ports Events Advanced				
Positioning Mode Standalone C DGPS (Code Differential) RTK Fixed	Enable Solutions Standalone RTK Float DGPS RTK Fixed			
DGPS Parameters Multi-base Corrections usage Nearest Mix Corrections Corrections Mix Corrections Positions Best CD Corrections max. age (sec) : 300 m	BTK Parameters BTK mode C Extrapolation C Extrapolation C Delay Delay Measurements Used C CA/L1 P/L1 P/L1 P/L2 Base Corrections period (sec): 1.00 Use old ref. coordinates Source : Arry 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 MINT	General MINTER Positioning Base Rover Ports Events Advanced					
Serial Parallel Modem USB Ethernet TCP						
Serial A	Input : Output :	Command 🗾	Period (sec) :	Baud rate : 115200		
Serial B	Input : Output :	Command None	Period (sec) :	Baud rate : 115200		
Serial C	Input : Output :	Command <u>*</u> RTK:CMR+ <u>*</u>	Period (sec) : 1	Baud rate : 38400 ★ ■ RTS/CTS		
Serial D	Input : Output :	Command V None V	Period (sec) :	Baud rate : 115200 💽		
Refresh Apply						
OK Exit Save Set all parameters to defaults						



23 - Onglet Advan	iced
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🥵 Receiver Configuration 🛛 🔊
General MINTER Positioning Base Rover Ports Events Advanced
Anti-Interference Multipath Reduction Loop Management External Frequency Raw Data Management Options
Refresh Apply
OK Exit Save Set all parameters to defaults

🐔 Receiver Configuration 🛛 🛛 🔊				
General MINTER Positioning Base Rover Ports Events Advanced				
General MINTER Positioning Base Hover Ports E Anti-Interference Multipath Reduction Loop Management PLL bandwidth: 25.0 (Hz) PLL order: 3	External Frequency Raw Data Management Options Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Static Mode Static Mode Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop Image: Enable Co-Op Tracking loop			
Refresh Apply OK Exit Save Save Set all parameters to defaults				