

Ghid pentru a porni simplu un APRS cu AGWTraker al lui SV2AGW (Fara radio si fara GPS)

Am ales programul lui SV2AGW fiindca este gratuit (« Shareware » cu perioada de « trial » illimitata).In plus el este tradus de subsemnatul in limba romana !!!

Aveti toate imaginile (capturile de ecran) de mai jos in fisiere separate pentru a le vizualiza mai usor.Deasemenea o marire a paginii in actualul document word la 200 % va poate ajuta la o mai buna vizualizare .

Nu o sa insist in a descrie sistemul APRS fiindca il gasiti in foarte multe documente pe internet ,dar vreau sa specific ca este util in a pozitiona o statie ,a vedea starea vremii la statiile care emit asta (radioamatori sau neradioamatori) ,a vedea pozitia staiei orbitale ISS . Am costatat utilitatea APRS aici in Franta unde activez in ADRASEC – Radioamatorii pentru securitatea civila ,cind avem actiuni de cautare-salvare balize de avion,sau in diverse alte actiuni ,cind conducatorul actiunii poate vedea pozitia mobilelor in teren si ajuta la orientare impreuna cu cei ce fac goniometrarea din fix.

Apoi acest program beneficiaza de un DX cluster ,de un sistem de mesaje scurte intre cei conectati sau informatii despre anumita statie ,pe ce frecventa este QRV ,la ce ora ,etc. Programul ne poate furniza deasemenea distanta pina la o anumita statie si directia in care se afla fata de statia proprie.

Cel mai simplu mod de a incepe este de a se conecta prin internet la anumite servere ,lista care se gaseste inglobata in program.Ulterior adaugind si portul radio putem sa acoperim o anumita arie din care sa preluam informatiile celor echipati in mobil .

In YO am vazut ca au aparut citeva statii la Suceava ,Tirgu Mures ,Bucuresti ,Oradea si Arad (in a ordinea in care le-am vazut ca au aparut) .

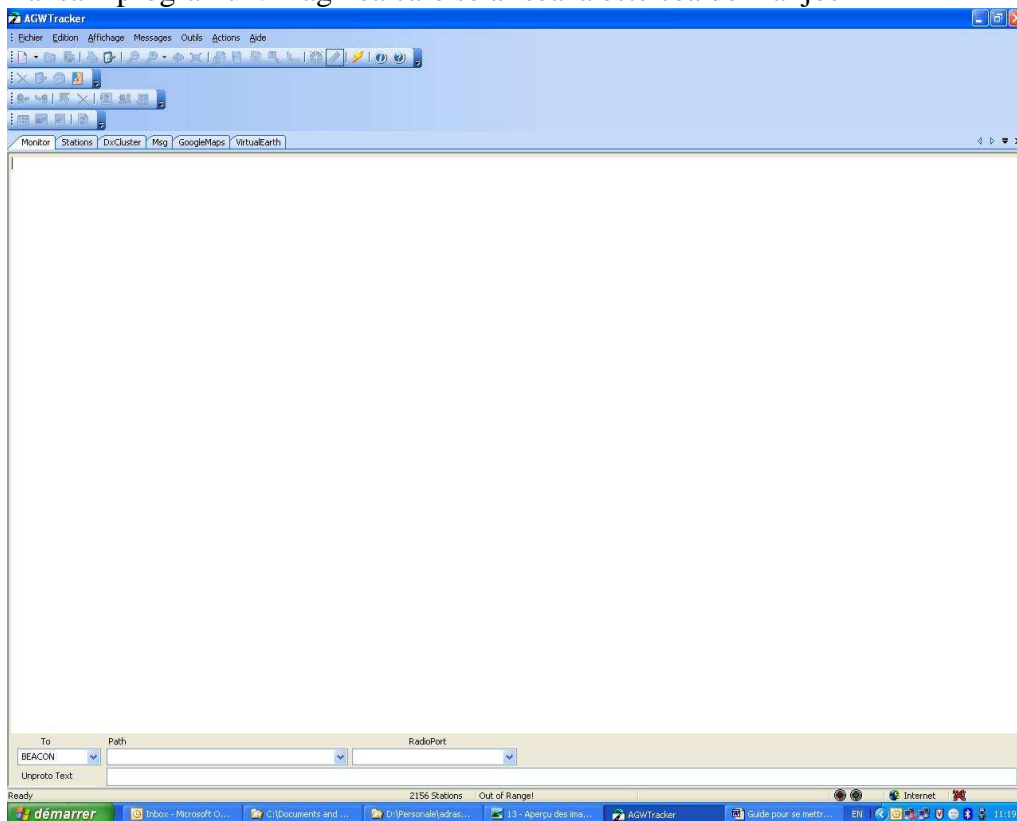
De ce avem nevoie :

- de un acces internet ,preferabil permanent de tipul ADSL ,WI-FI ,cablu etc pentru a fi conectati in permanenta cu serverul si de a profita de hartile on line de Google map sau Earth .
- un calculator pe care sa se ruleze Windows XP,2000,ME sau chiar 98 .
- coordonatele QTH-lui nostru .Cel mai simplu daca nu le stiti inca le puteti gasi cu ajutorul lui Google EARTH.E adevarat ca pentru YO ,gasim foarte detaliat pozitionarea la nivel de strada doar pentru citeva zone ,in Bucuresti in zona

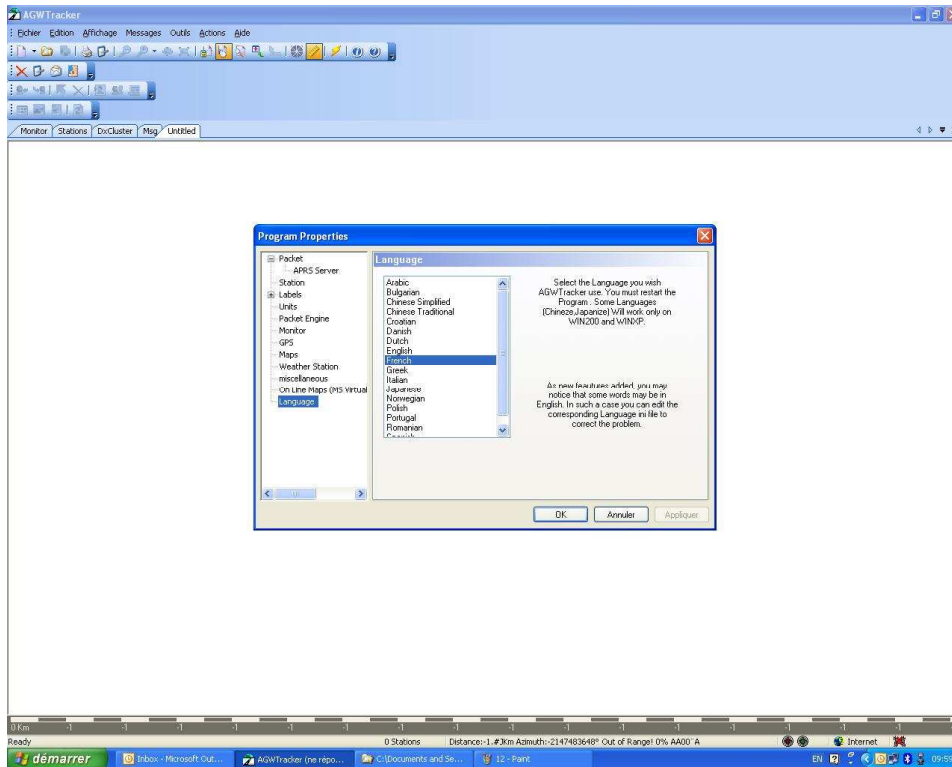
Timisoara ,Arad,Brasov sau Targoviste .Daca nu aveti inca « Google EARTH » il puteti gasi si instala de la <http://earth.google.com> . Atentie datele la secunde sunt in decimale ,trebuie facuta conversia in secunde hexadécimales printr-o regula de trei simple.

- De pe internet pe site-ul <http://www.sv2agw.com/downloads/default.htm> la ” download ” gasim in sectiunea AGWTracker [trackerU_setup.zip](#) pentru Windows XP sau pe prima linie pentru Windows 98.
- Putem sa-l lansam direct si la deschiderea arhivei sa clicam pe setup si instalarea se face foarte simplu.

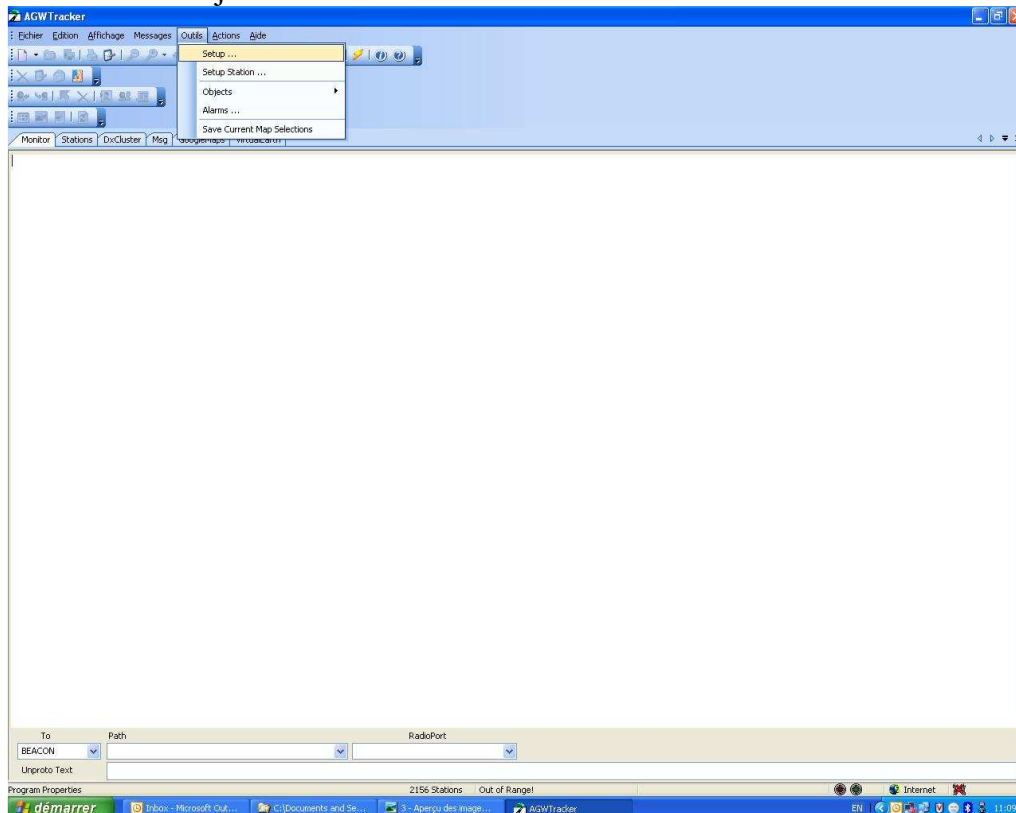
Lansam programul .Imaginea care se afiseaza este cea de mai jos



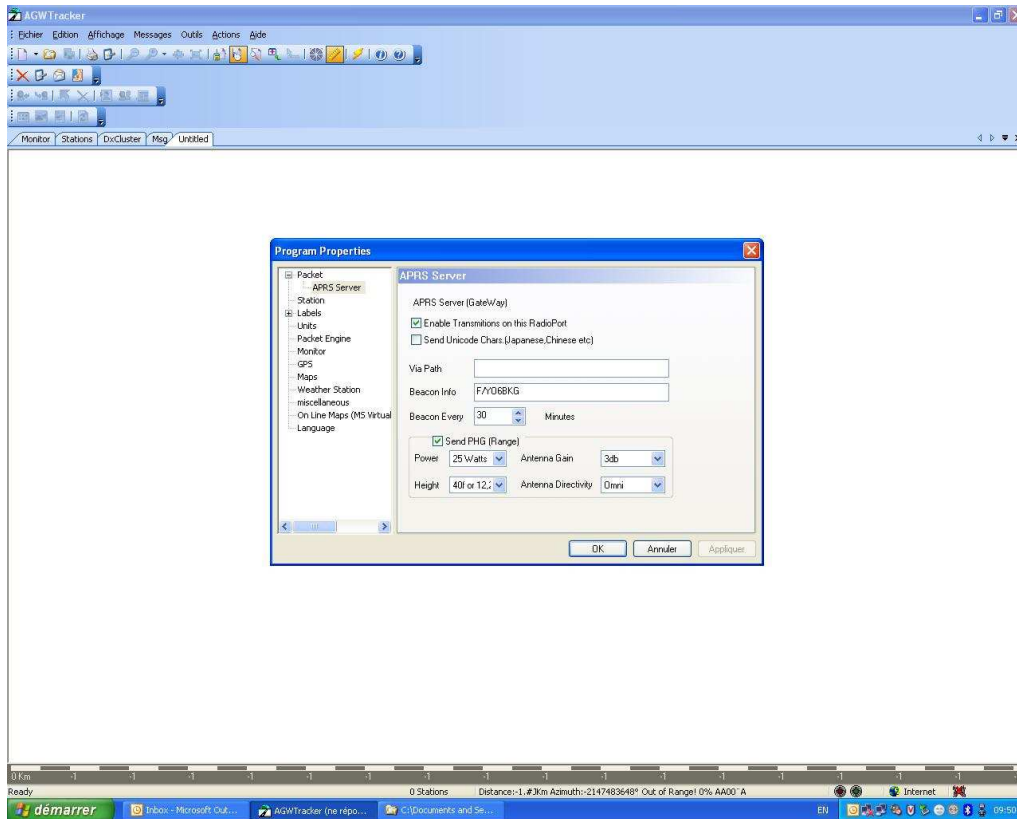
Pe bara de menui in « Tools » gasim « Setup » ,apoi « Station » si apoi jos « Language » si alegem Romanian. Inchidem programul din File ,Exit , fiindca modificarea are loc doar la urmatoarea lansare.Pornim din programul .



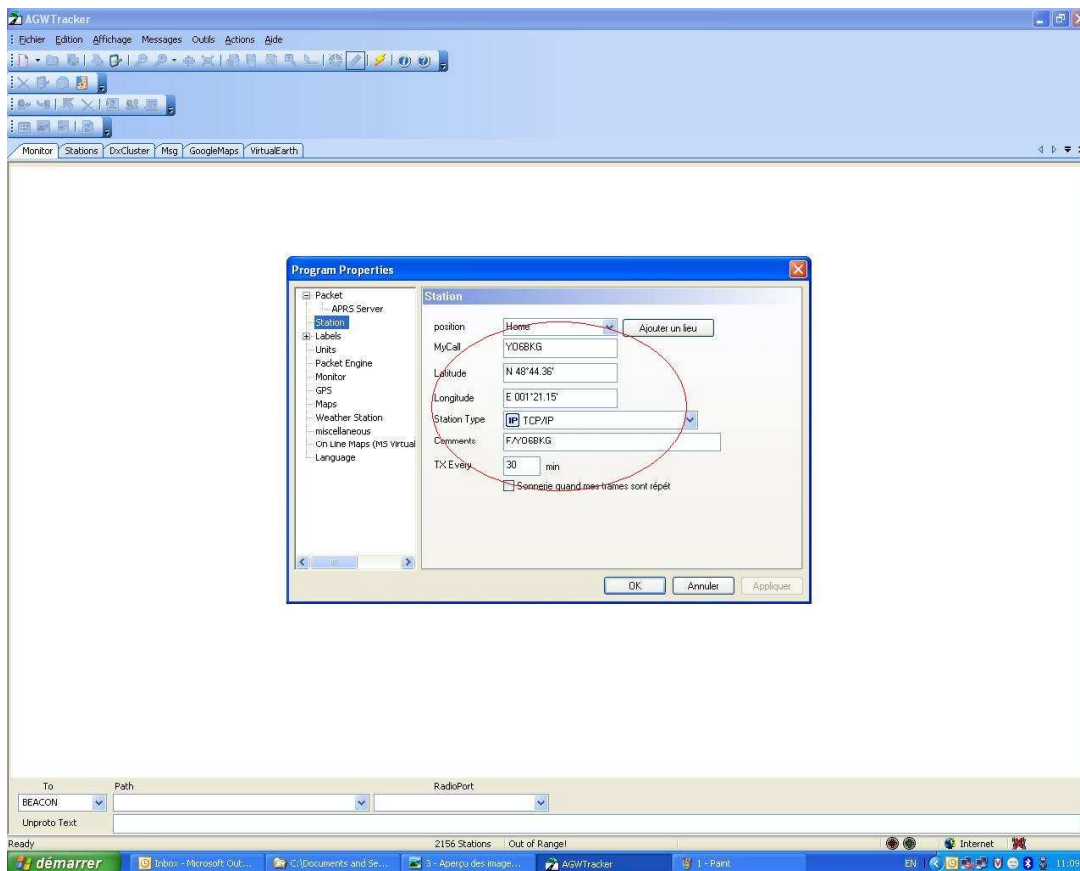
Acum vom personaliza pentru statia proprie din UNELTE ,SETUP .Urmariti etapele din ecranele de mai jos :

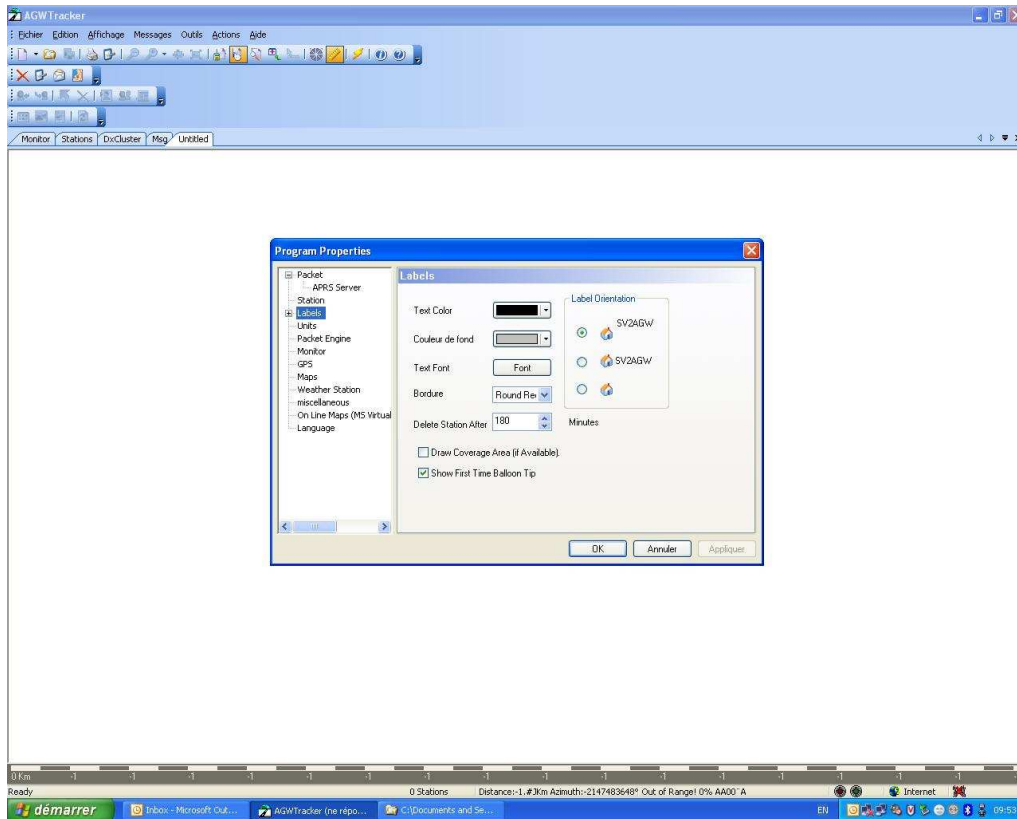


Aici indicativul Dvs. :

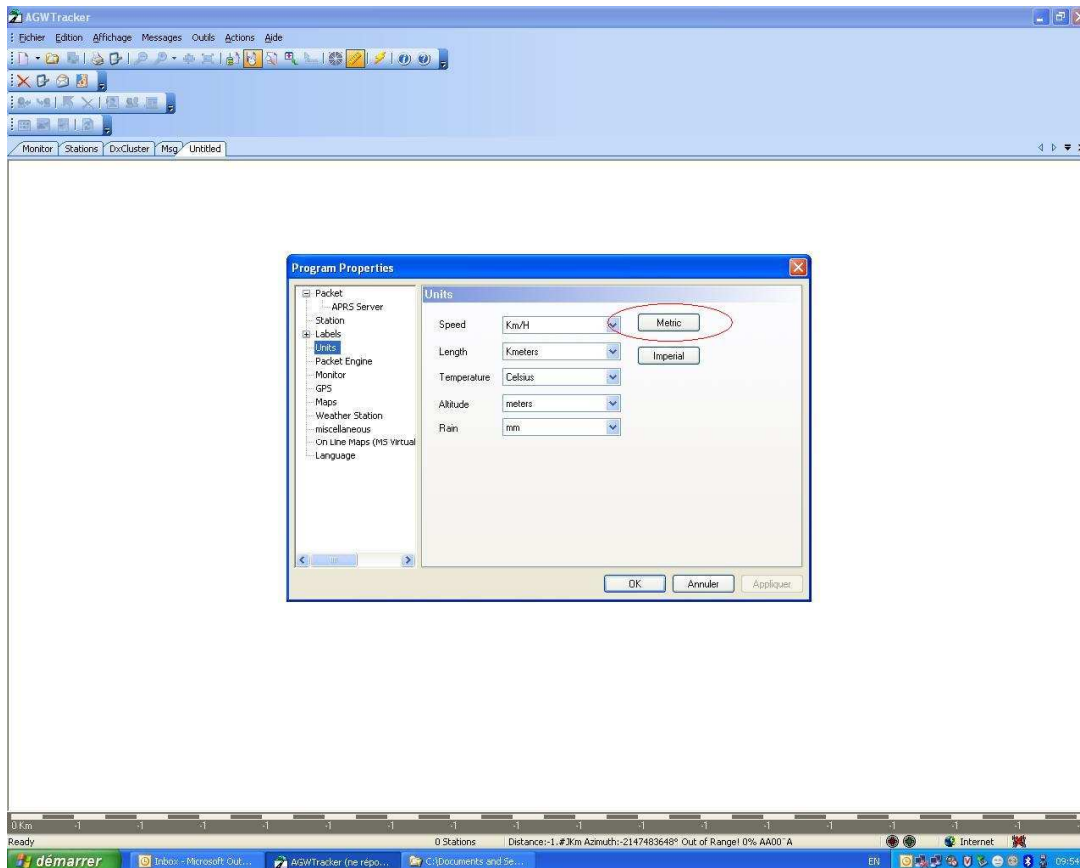


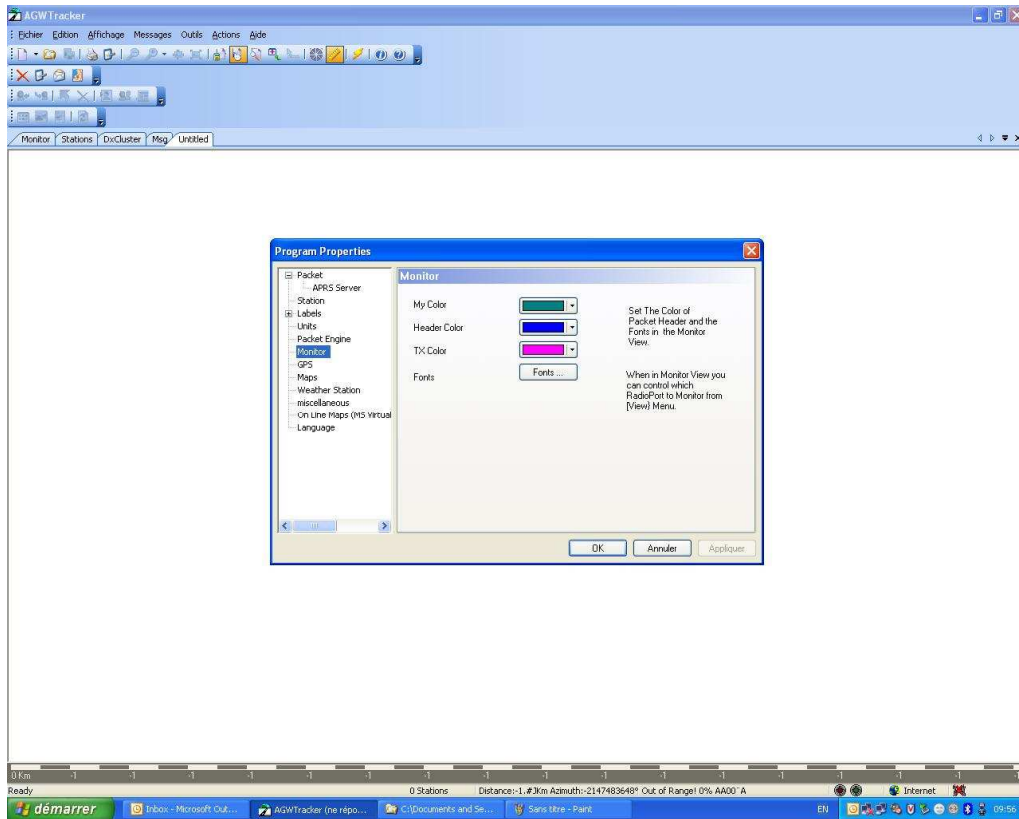
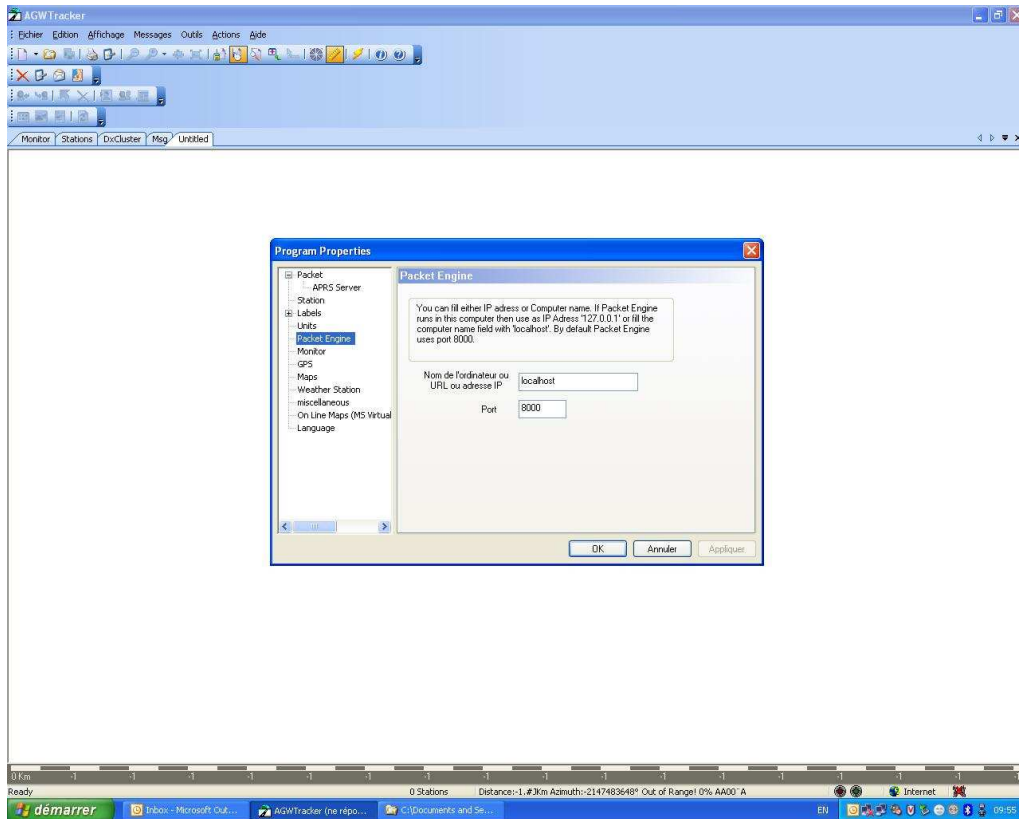
Nu uitati sa transformati secunde decesimale in hexagesimale

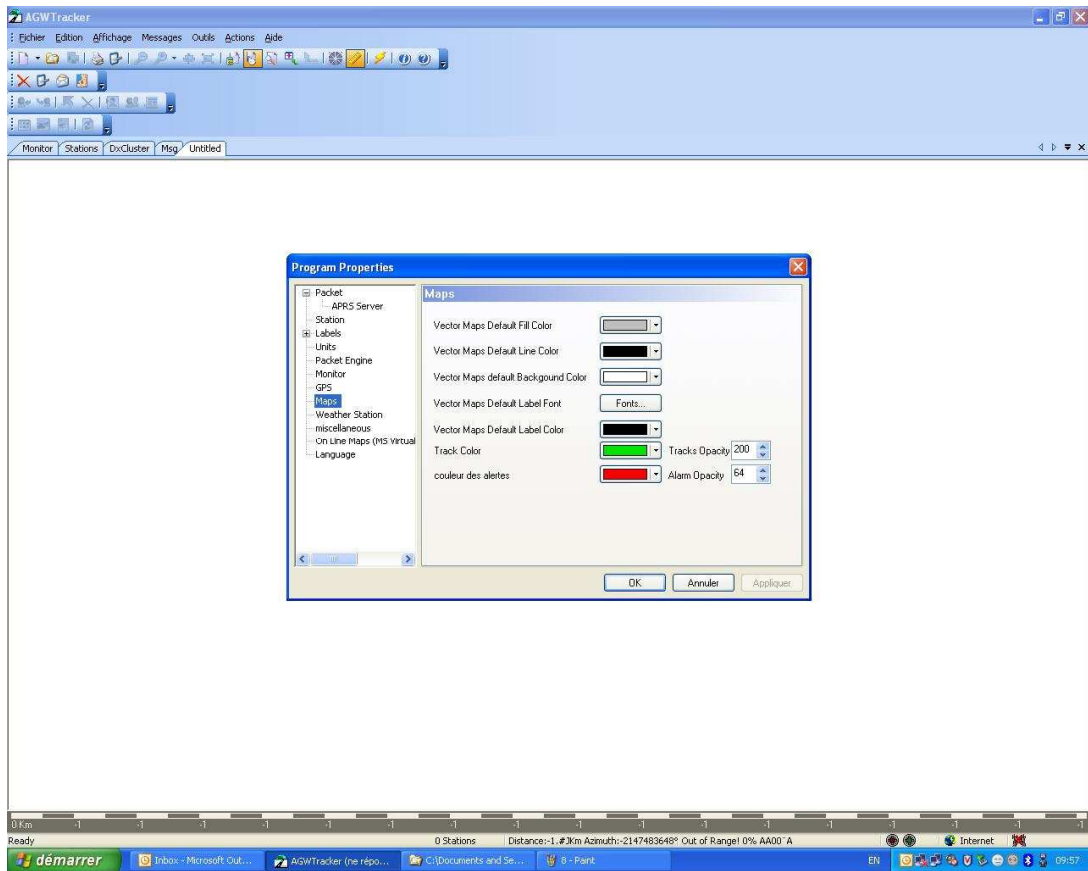
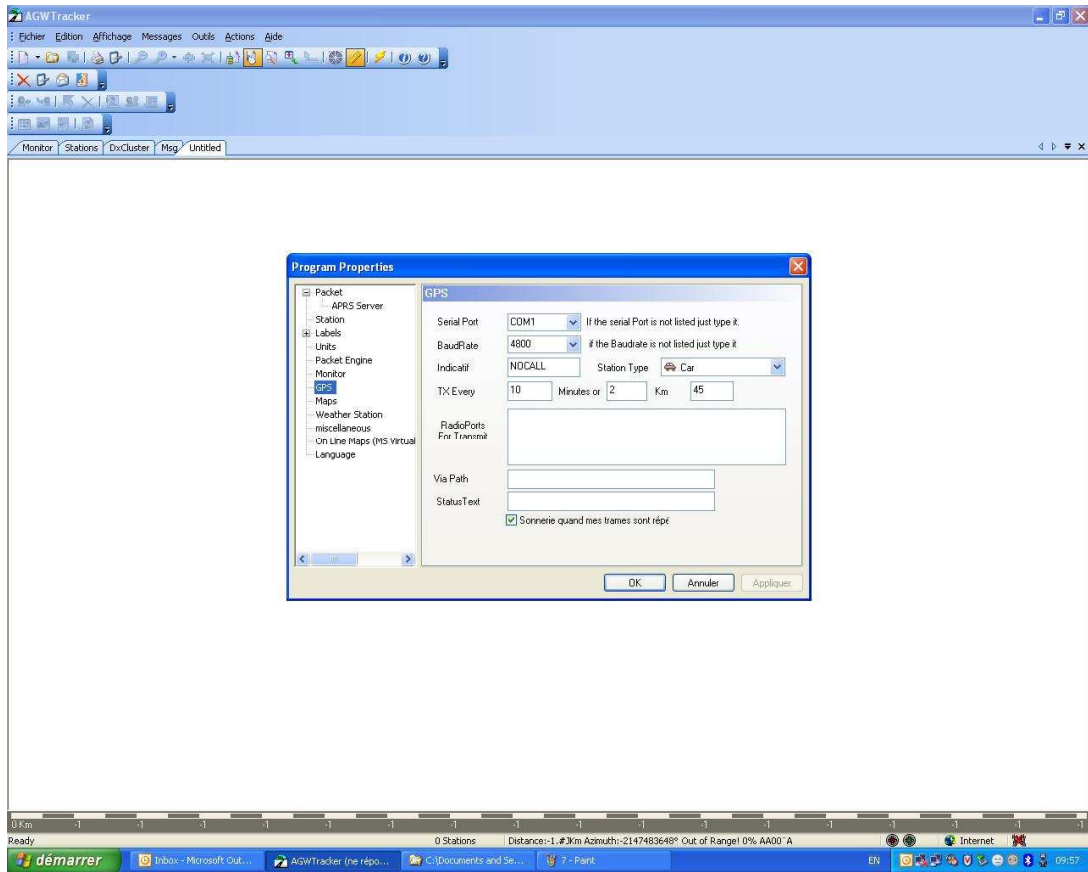


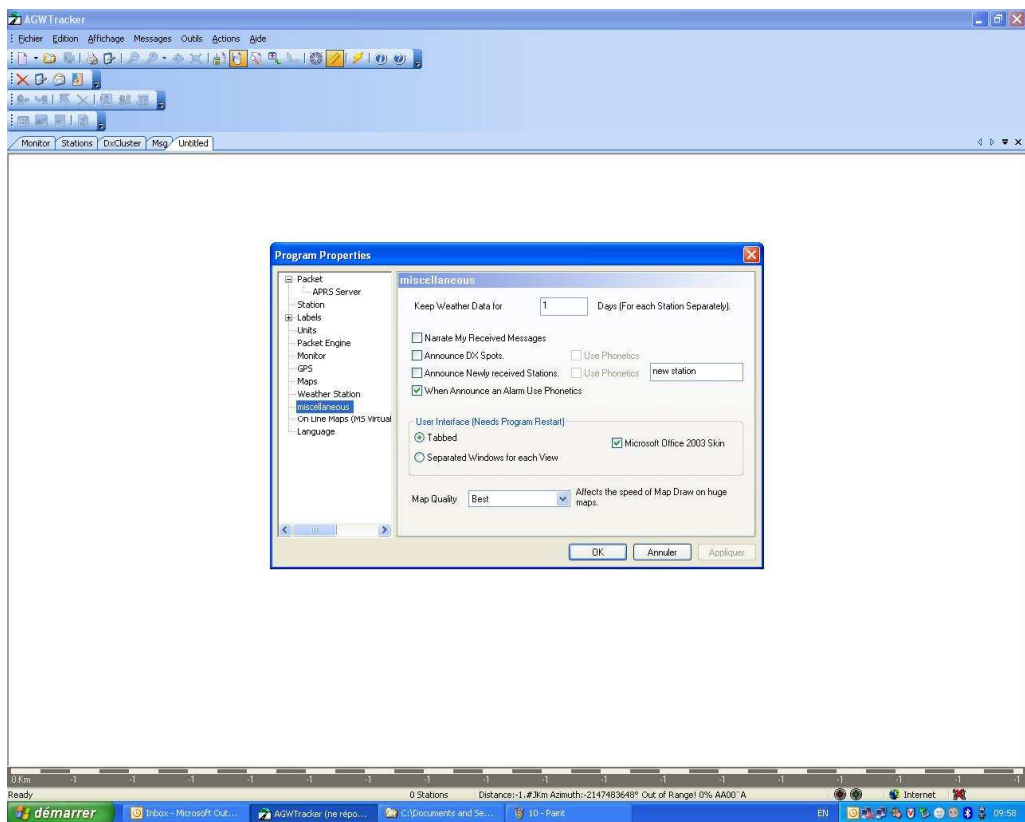
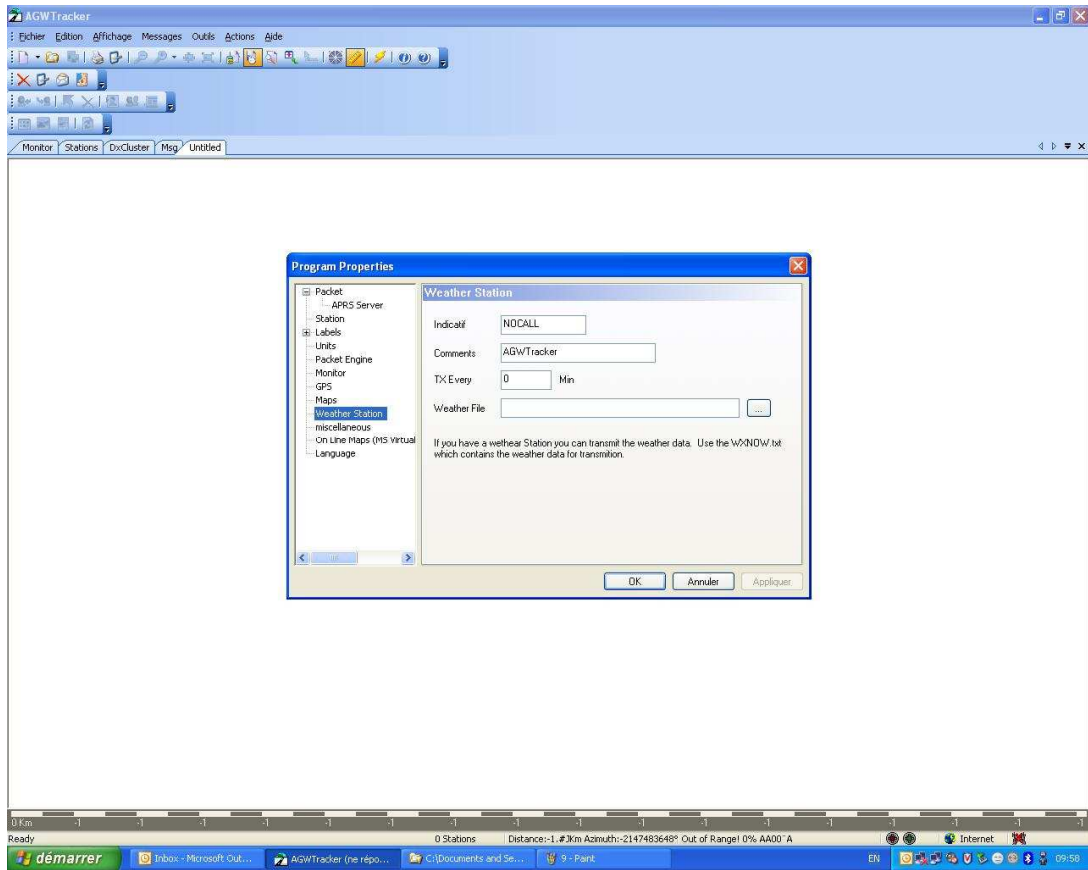


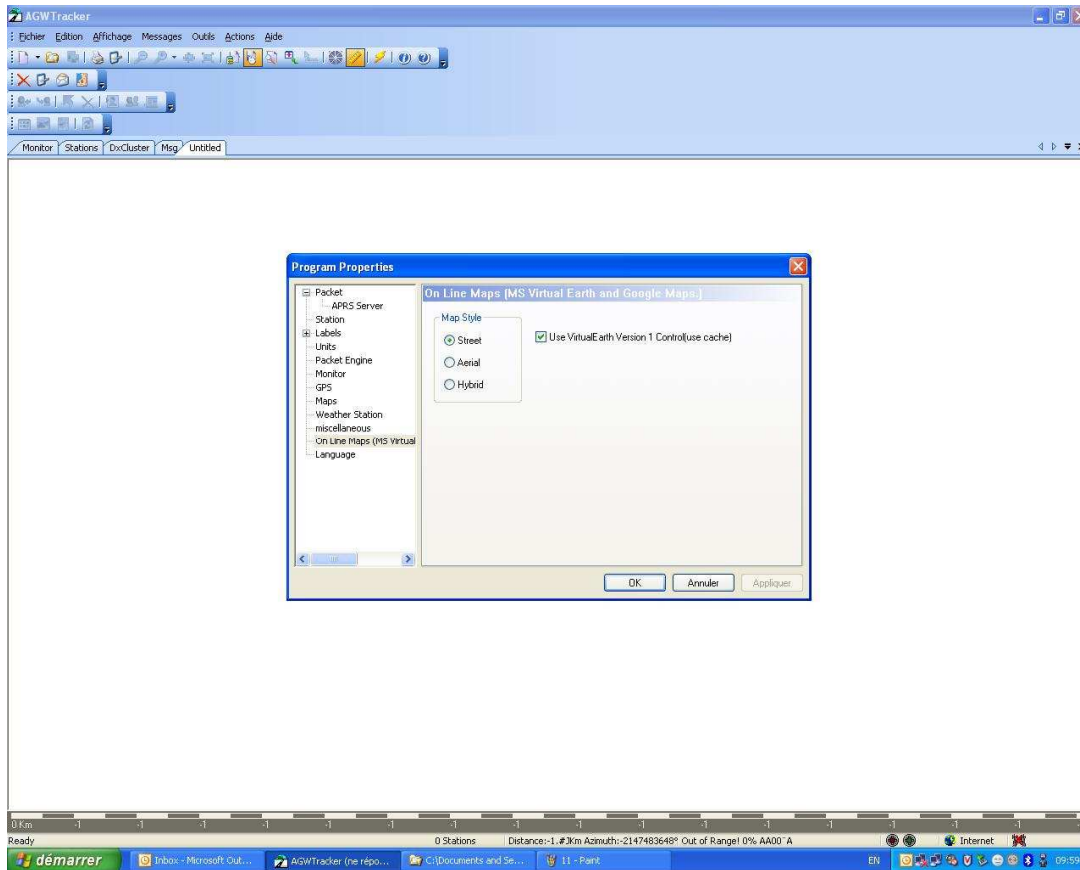
Alegeti sistemul de unitati de masura ,metric :



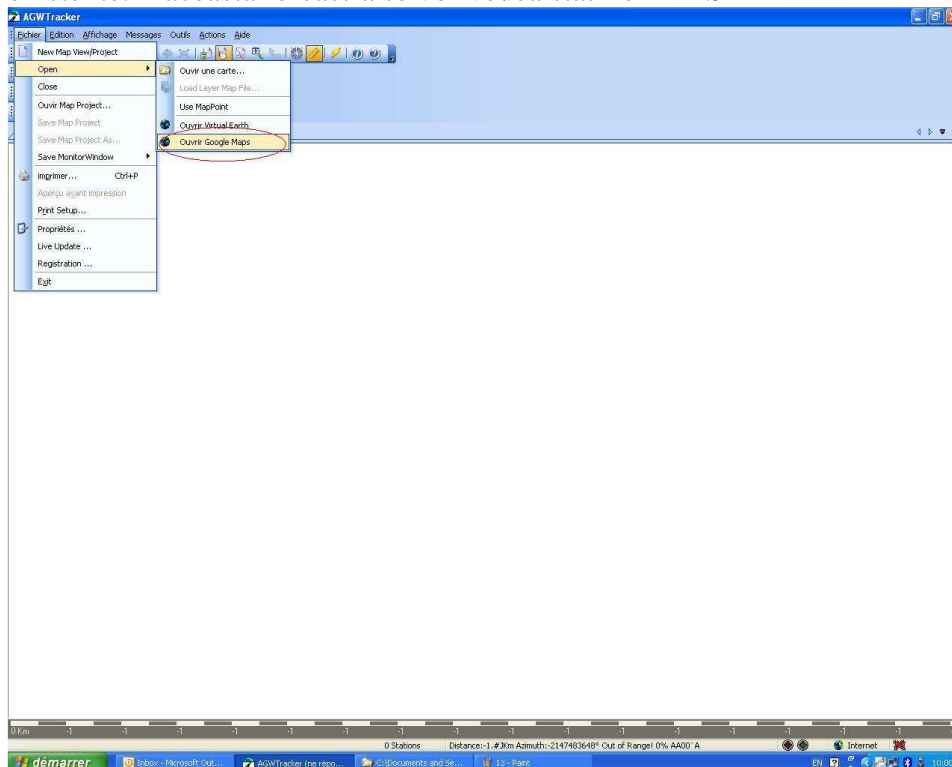




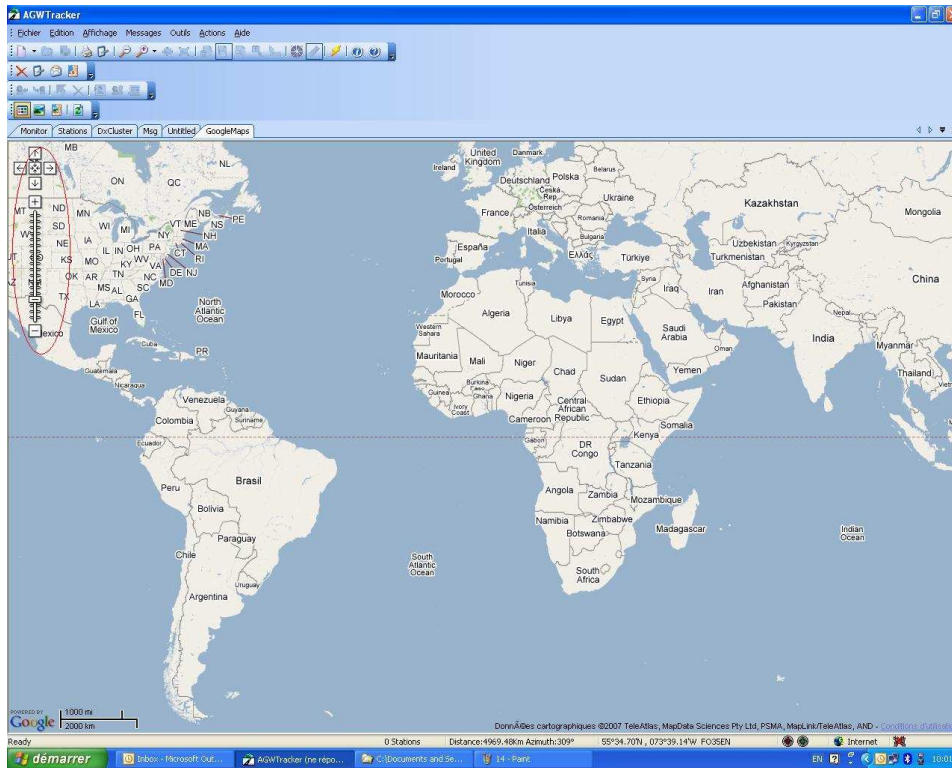




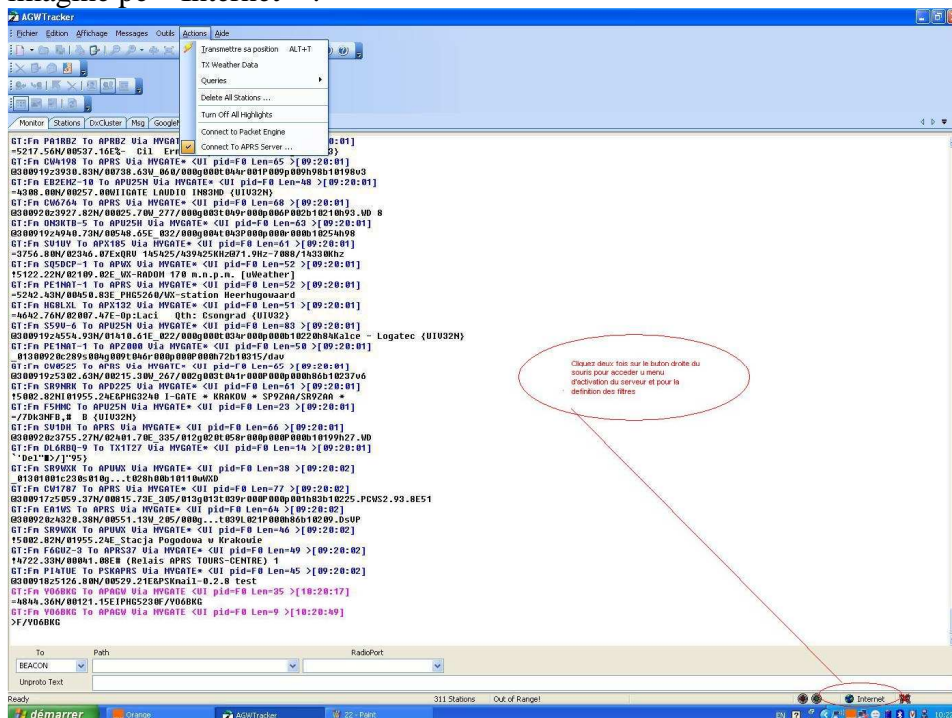
Din Fisier ,Deschide ,activati « google map » si o fereastra dedicata se va adauga la cele existente.In aceasta fereastra se vor vedea statiile APRS



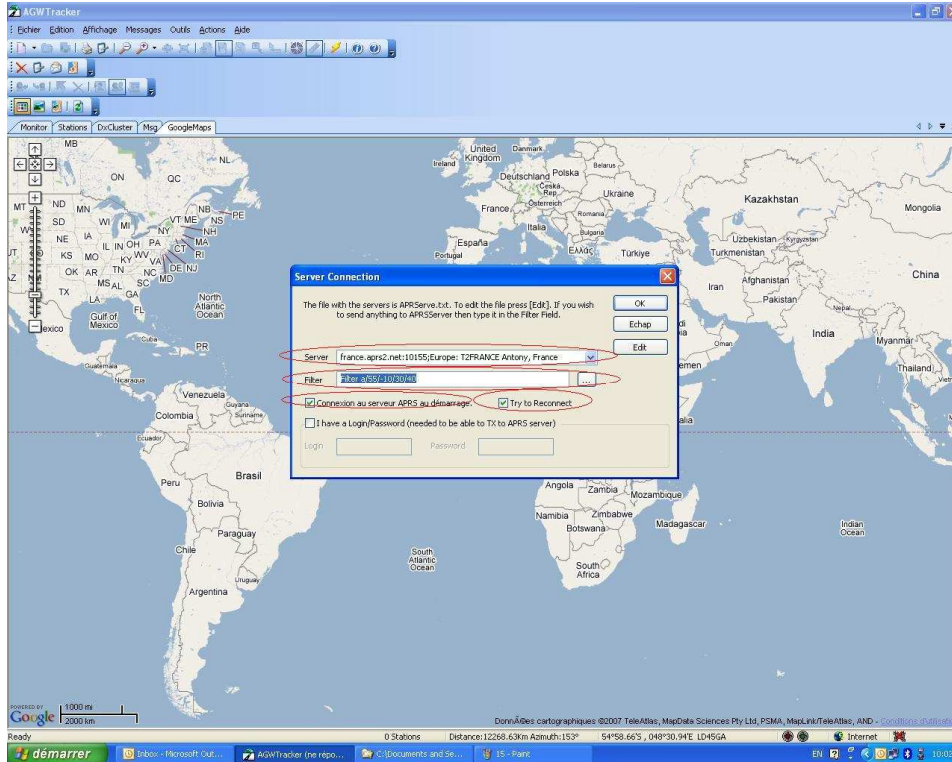
Cu sagetile din stinga sus miscati harta sau faceti zum.Cu mouse putem face si « trash » ca sa mutam harta in ecran sau zum cu rouleta de pe mouse.



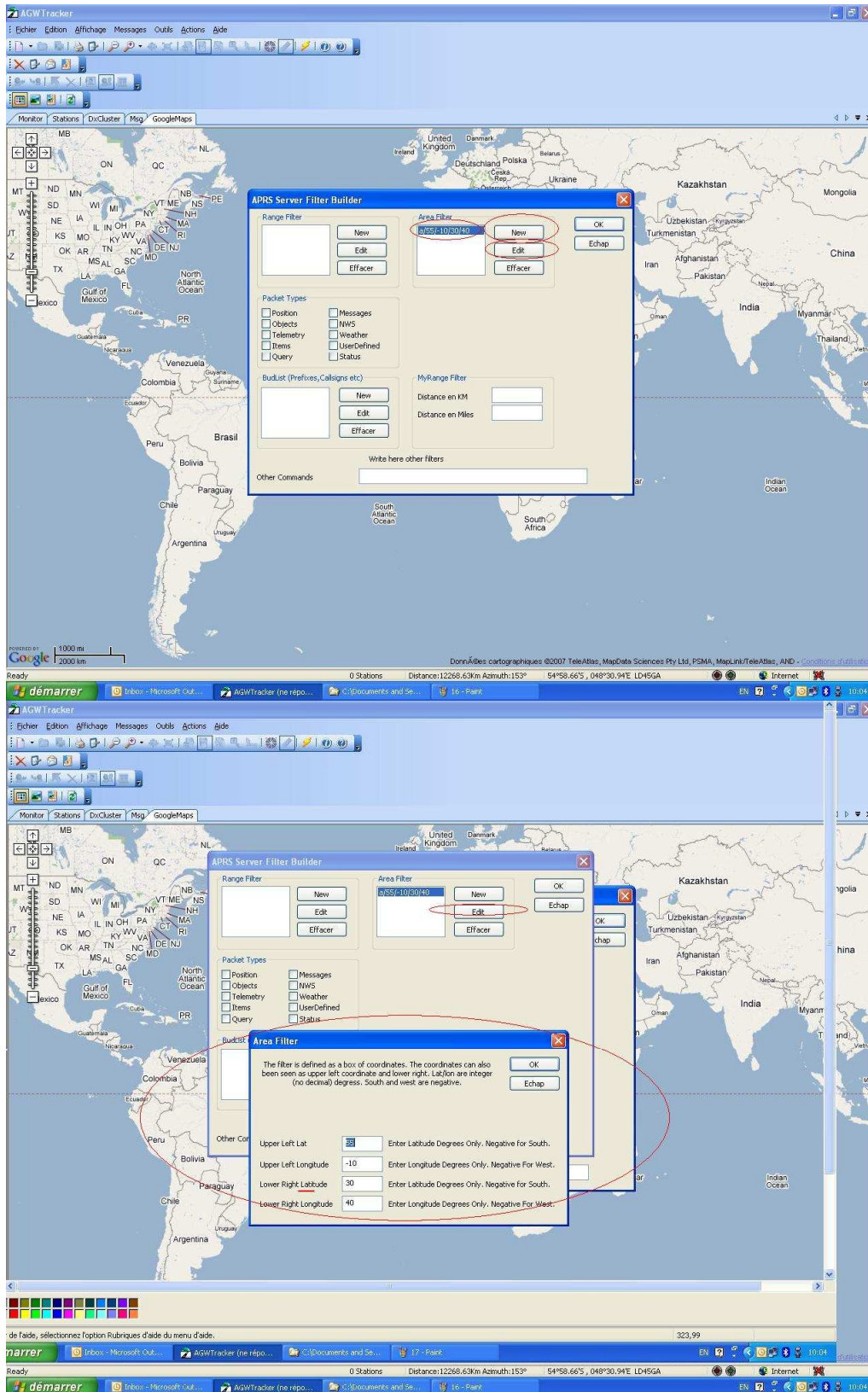
Pentru a se conecta la un server faceti clic de doua ori jos dreapt conform indicatiei din imagine pe « Internet » .



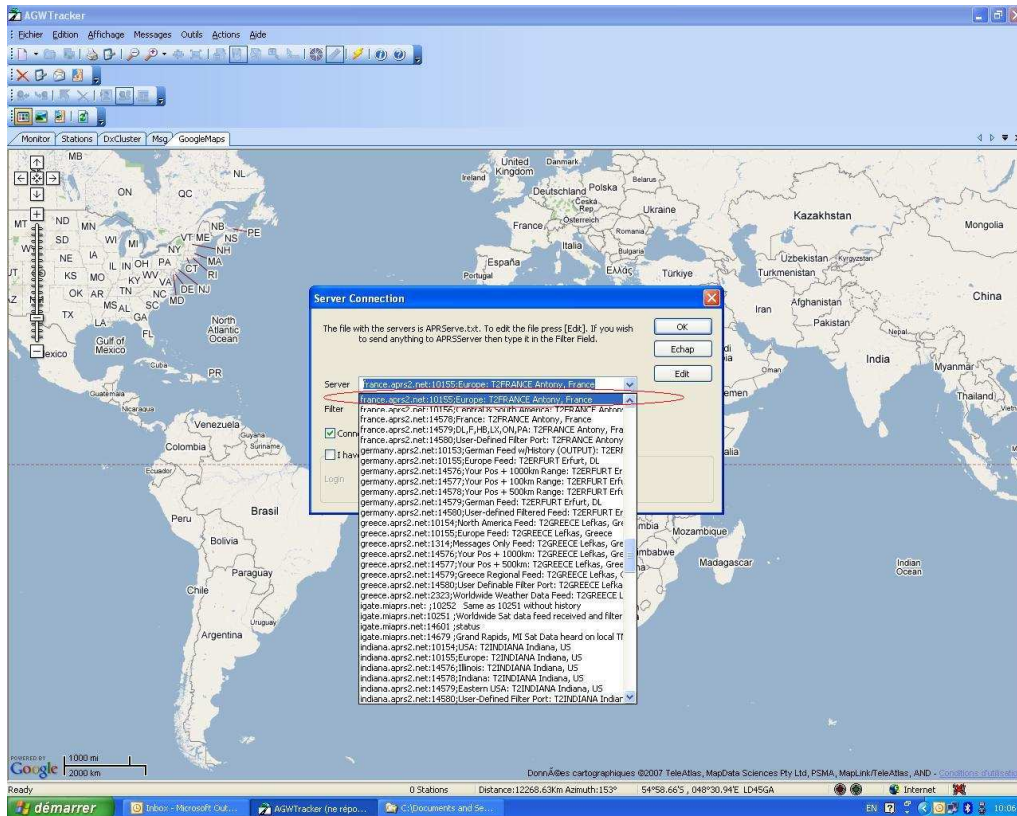
Imagine de mai jos va da acces la setarea serverului si a filtrului de afisare controlata a unei zone dorite.Va sfatuiesc sa va conectati la France.aprs2.net care l-am verificat care se gaseste la Antony (dept 92) in sudul Parisului .Ulterior va puteti conecta la site-ul acestui sever la adresa www.f5vag.eu unde va pute-ti cauta daca a-ti fost auzit.Harta disponibila pe server nu acopera decit o zona limitata in jurul Parisului ,dar nu ve-ti avea nevoie fiindca ve-ti avea propria harta in programul propriu de pe calculator.



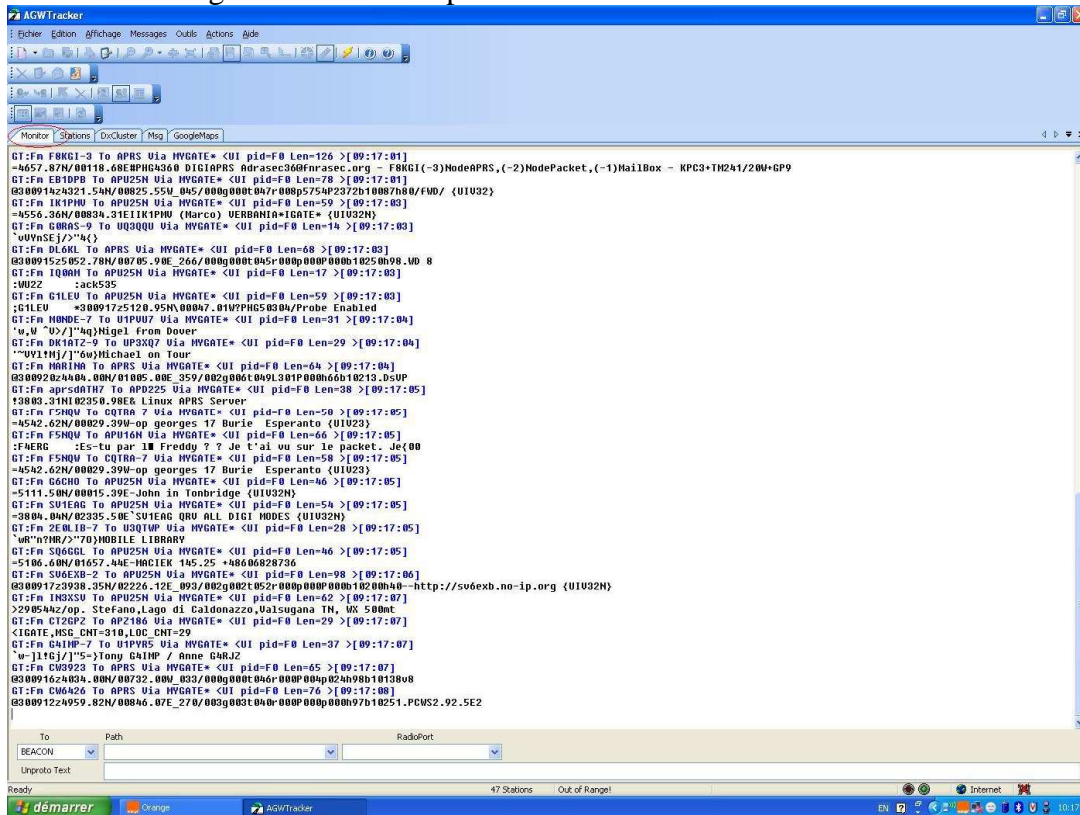
Deasemenea va recomand sa va creati un filtru care sa limiteze la nivelul Europei statiile afisate ,pentru a usura munca microprocesorului care prelucreaza f multe date.Filtrul pe care il vedeti in imagine acopera de la longitudinea de 10 grd W pina la 30 grd E si latitudinea intre 40 grd N si 55 grd N.



Legeti serverul din figura : si OK



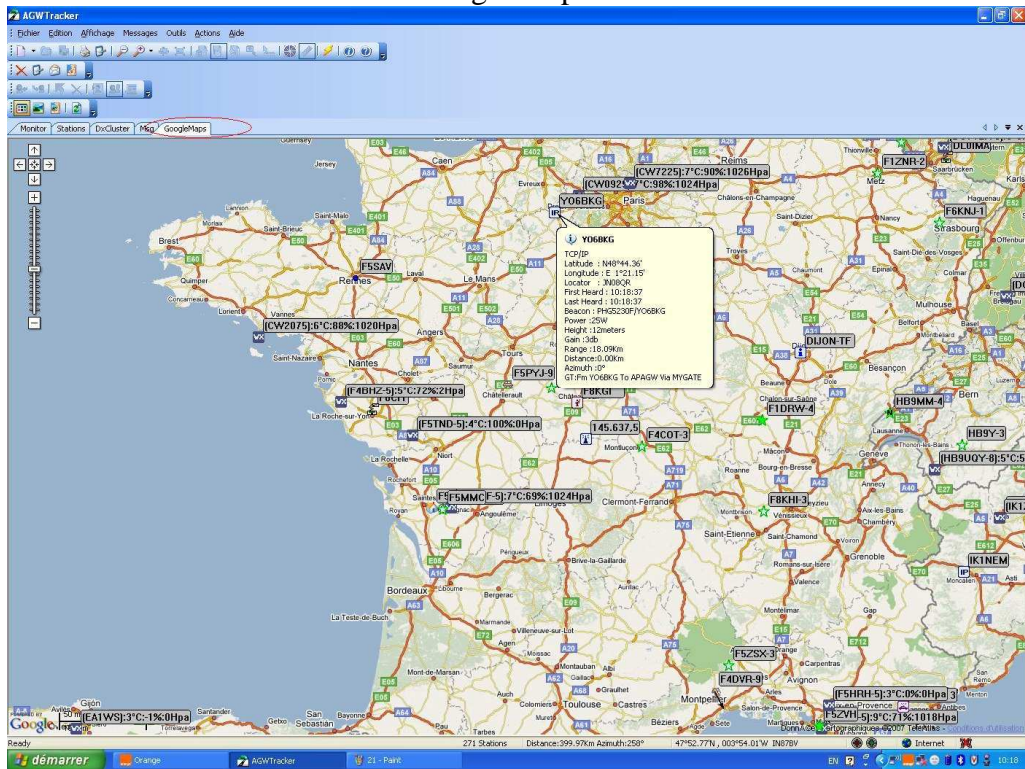
Daca sunteti legat la internet iata primele rezultate in fereastra « Monitor »



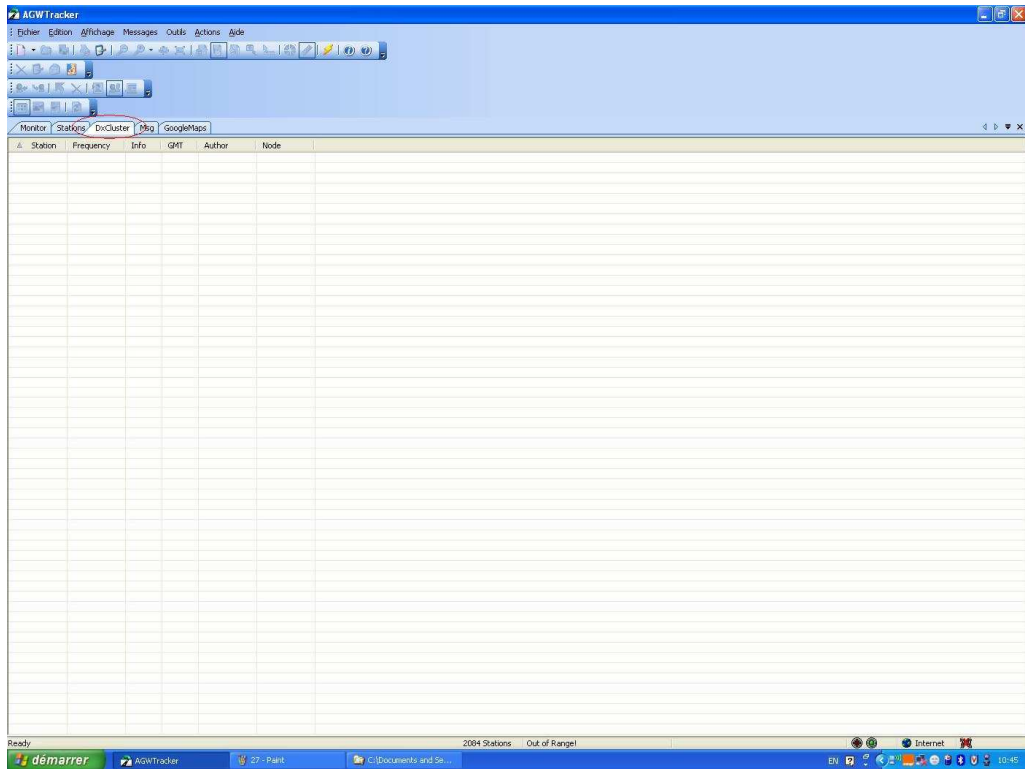
Apoi in fereastra Station statiile APRS active in zona aleasa .

Station	ID	Type	Dir...	Latitude	Longitude	First Heard	Last Heard	Dist	Beacon
145.637.5	Mc Repeater	Object	258...	04626.00N	00149.45E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	F5ZDE shift -60Hz REF36
W1E1C19-5	Kerwood	Fixed	595...	05324.13N	00250.30W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	>70MOBILE LIBRARY
W1E1K1P	Weather Sta...	Weather	451...	05246.00N	00259.00E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	Plan www.ZE.CU5.TK
aprs4T47	HF Gateway	Fixed	2158...	03833.11N	02350.98E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	Linux APRS Server
CTD5B-3	Undefined	Fixed	1245...	04011.52N	00850.47W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	12.5V 10C
CTZHP	House (HF)	Fixed	1236...	0406.65N	00830.15W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	Cesar Santos' QRV 144300 usb/3.715 (UV32N)
CTZHP-9	Car	Mobile	1235...	04077.74N	00814.42W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	F74FCESAR SANTOS - COMEDIA
W20025	Weather Sta...	Weather	437...	05127.59N	00923.38E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	220100p...J0H45000001024294W4 @ OTB Engine...
W0929	Weather Sta...	Weather	526...	04854.40N	00143.15E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	050100p009049000P00p008610248v8
W11115	Weather Sta...	Weather	310...	05121.71N	00098.91W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	258100p0000000000P00b10240FW
W1260	Weather Sta...	Weather	422...	05177.50N	00956.99E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	...000p...10HP900h...310276.Dvs
W1452	Weather Sta...	Weather	467...	05252.90N	00922.97E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	266100p...10H46000910122.Dvs
W1738	Weather Sta...	Weather	766...	04866.38N	01142.50E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	247100p000036157000P00p0010194610217v
W1839	Weather Sta...	Weather	1665...	03732.83N	01595.02E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	069100p000054109000067b10202.DvsP
W1880	Weather Sta...	Weather	494...	05238.27N	00444.57E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	284100p0000460000P00p9510250.DvsP
W2075	Weather Sta...	Weather	559...	04729.27N	00346.85W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	027100p000400000P00p008610208v8
W2321	Weather Sta...	Weather	991...	05159.42N	00046.07W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	279100p0000040000P00p008610218v8
W2335	Weather Sta...	Weather	600...	05315.00N	0064.00E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	277100p0004046000P00p008610217v8
W2923	Weather Sta...	Weather	1147...	04034.00N	00732.00W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	03100p0000460000P00p402498b10138v8
W2730	Weather Sta...	Weather	373...	05379.27N	00151.85E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	294100p0001103300094b10243.DvsP
W3143	Weather Sta...	Weather	318...	05134.13N	00040.48E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	303100p000460000P00b10273.Dvs
W3550	Weather Sta...	Weather	599...	05411.78N	00200.70W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	000100p000032000P00p008610238v8
W3682	Weather Sta...	Weather	430...	05152.17N	00213.10W	10:17 30/01/2007	10:17 30/01/2007	MIGATE	070100p0030400000P00b10230H8.WD
W3926	Weather Sta...	Weather	594...	04959.82N	00846.07E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	270100p0000460000P00p008610251.PCW52.92.5E2
W4117	Weather Sta...	Weather	624...	05339.89N	01013.43E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	369100p0000040000P00p008610238v8
W4192	Weather Sta...	Weather	620...	04122.59N	00277.58E	10:16 30/01/2007	10:16 30/01/2007	MIGATE	266100p0000480000P00p008610218v8
W4225	Weather Sta...	Weather	88.5...	04911.68N	00228.90E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	225100R004000000P00b10281.open200v1.10
YB602	TCPIP	TCPIP	531...	04901.11N	00826.11E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	aprs4 Linux APRS Server
YB603	As-400R-10	Object	469...	05023.29N	00020.90E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	R00000 439 826 96008 WinHm.org TeLPac
YB625	Mc Repeater	Fixed	616...	05217.41N	00893.34E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	APRS,Funkit Master, WS, RR-Link,UV32)
YB650	Digi	Digi	752...	05238.16N	01005.60E	10:16 30/01/2007	10:16 30/01/2007	MIGATE	Dnk.Cele Home (UV32)
YB692-10	Weather Sta...	Weather	797...	05333.89N	00949.50E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	338100p0000440000P00b1021091WV.Station.H...
YB710-9	Trunk (B...	Mobile	472...	05020.16N	00724.59E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	[77]
YB725	Weather Sta...	Weather	518...	04764.03N	00898.80E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	030100p0000324F00P00p000b10228v82899v2
YB822-9	Car	Mobile	570...	04919.10N	00997.92E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	[7sp]
YB841Z-9	Jeep	Mobile	587...	05038.17N	00858.61E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	[7sw]Michael on Tour
YB850	House QTH...	Fixed	699...	05259.31N	00842.76E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	Peter, Heilgenrods, DOK 125
YB994	HF Gateway	Fixed	494...	04917.20N	00715.05E	10:16 30/01/2007	10:16 30/01/2007	MIGATE	INTENSA Gateway on 14.103
YB10R-1	Weather Sta...	Weather	632...	04825.27N	00956.32E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	000100p...4032...d...P9R10230(Wx in Uls (UV32N)
YB20M-6	Weather Sta...	Weather	574...	04826.04N	00998.90E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	157100p00003600p000P00b10234+00A+175...
YB26L	Weather Sta...	Weather	475...	05052.78N	00795.90E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	266100p0000460000P00p008610234+00A+175...
YB26L-4	Weather Sta...	Weather	5421...	00070.00N	00005.00E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	DIGI(WX-URBACH (UV32N)
YB26S	Digi	Digi	602...	04848.99N	00934.50E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	180100p0000460000P00b10234+00A+175...
YB200M	Weather Sta...	Weather	561...	04849.03N	00990.76E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	DIGI(WX-URBACH (UV32N)
YB202M	HF Gateway	Fixed	600...	04752.43N	00922.12E	10:16 30/01/2007	10:16 30/01/2007	MIGATE	DEBIAN APRS Server vy 73 de Manuel/DO2G(A)-48
YB208H-5	Weather Sta...	Weather	513...	05138.63N	00697.19E	10:17 30/01/2007	10:17 30/01/2007	MIGATE	255100p0000460000P00p1001092b10236Wetterstabo...

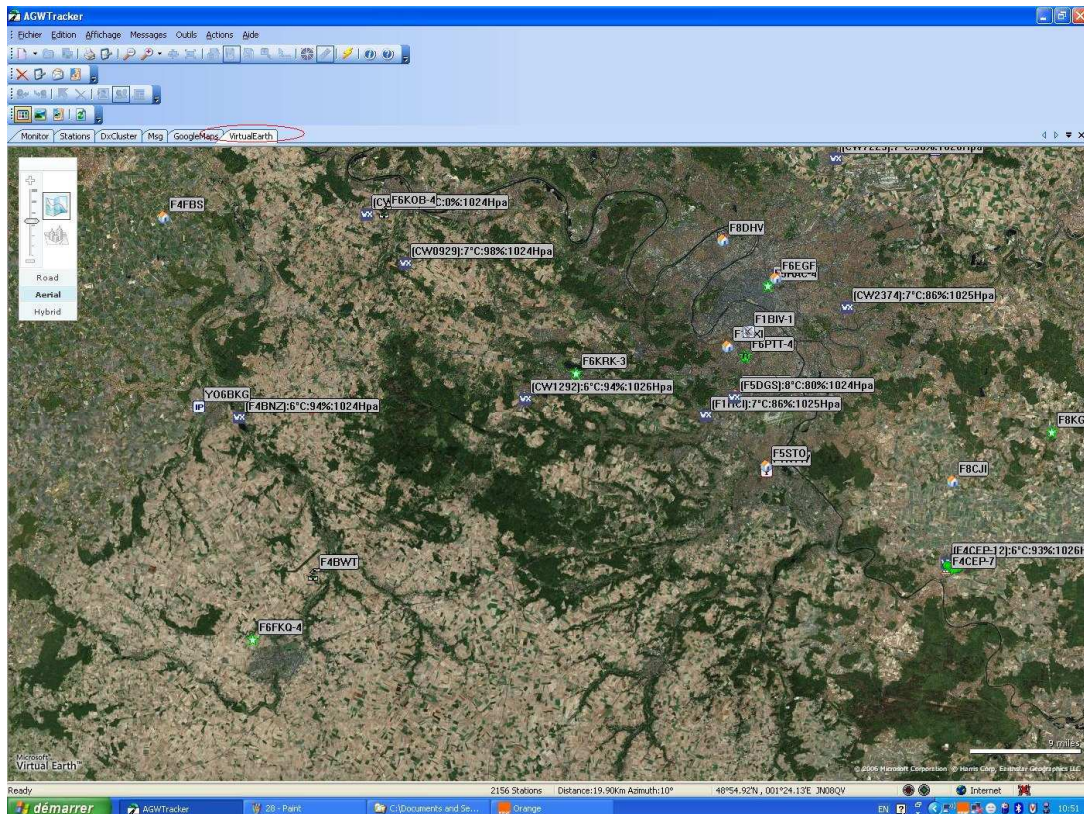
Iata ce vedem harta in fereastra Google Map :

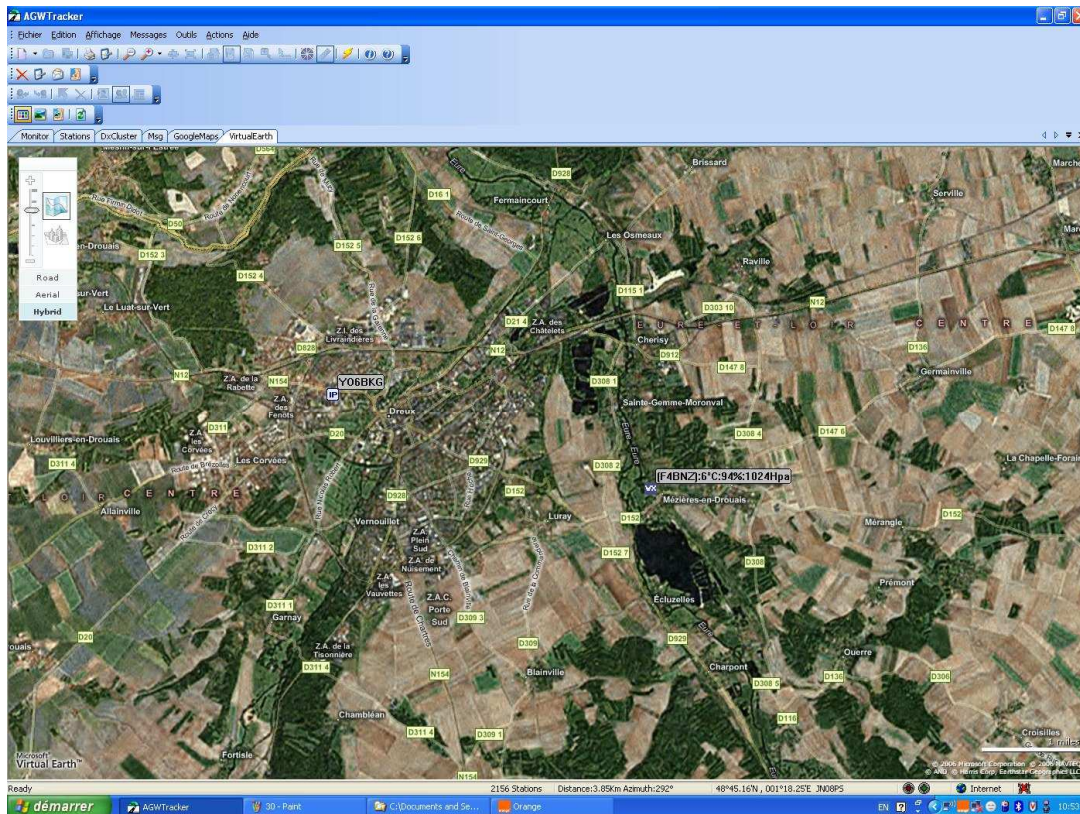
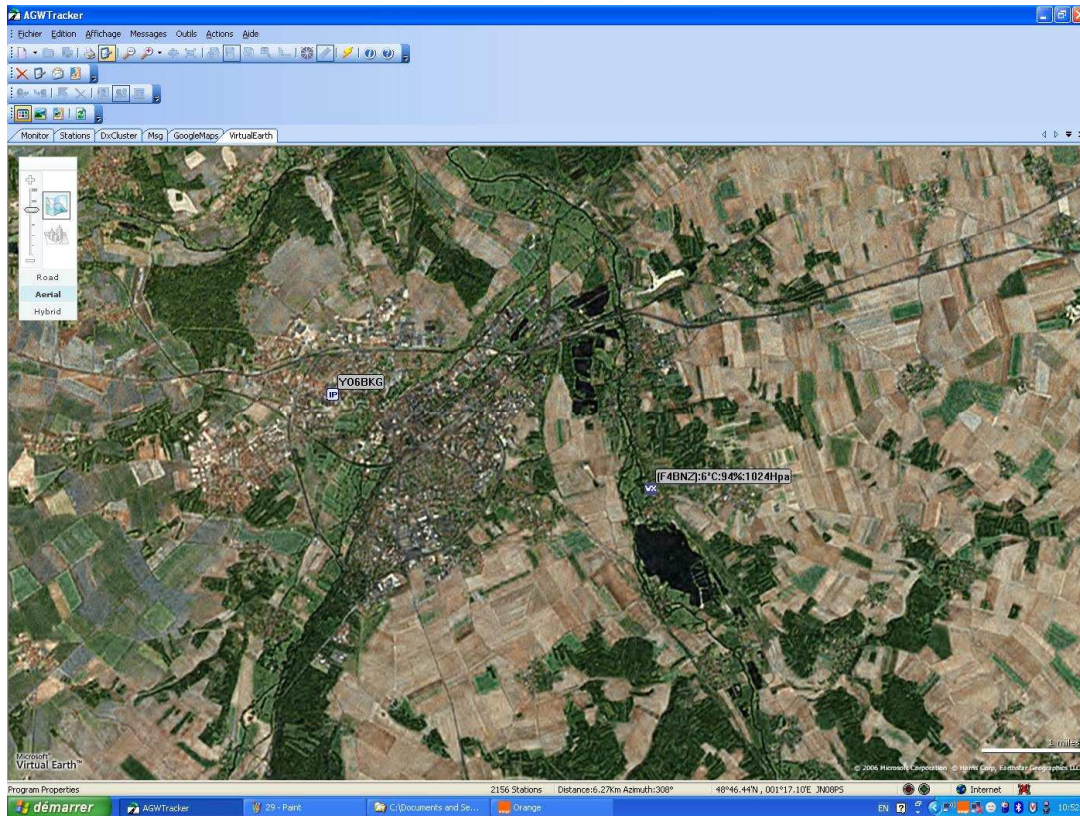


Avem si un DX cluster inclus .Aici captura de ecran a fost facuta fara sa fi avut mesaj

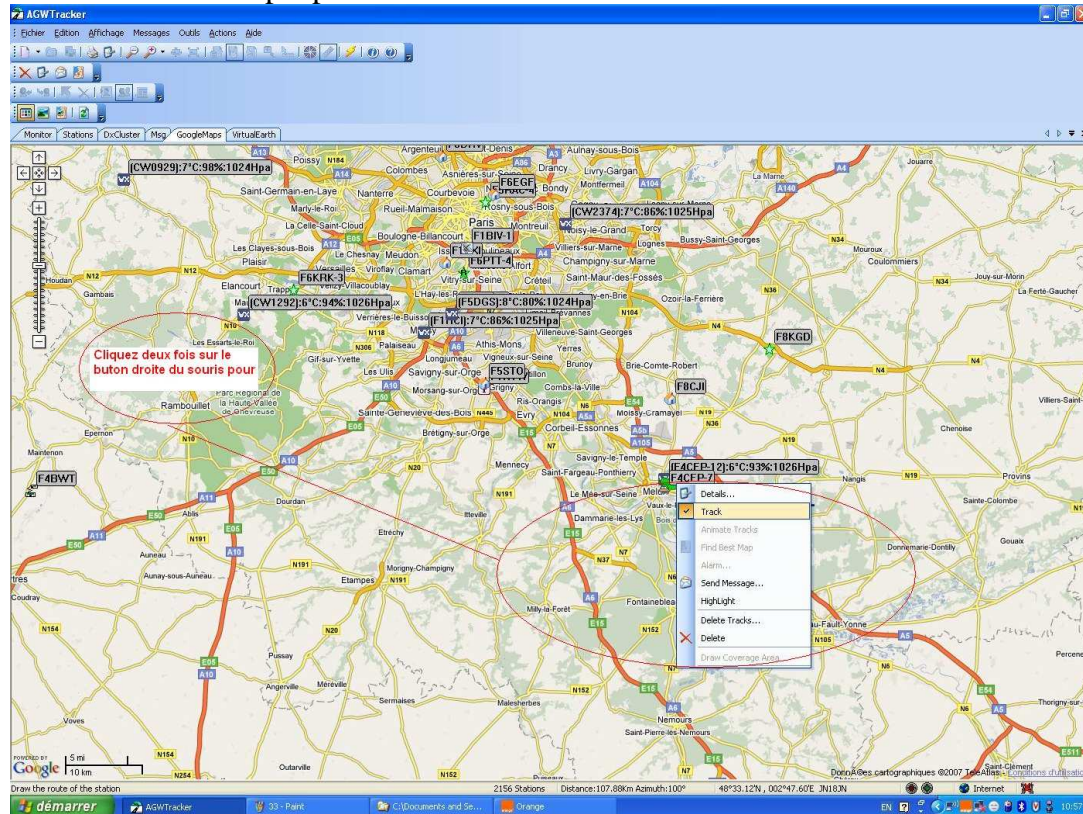


Avem si varianta de vedea statiile intr-un ecran Virtual Earth « Virtual Earth » .

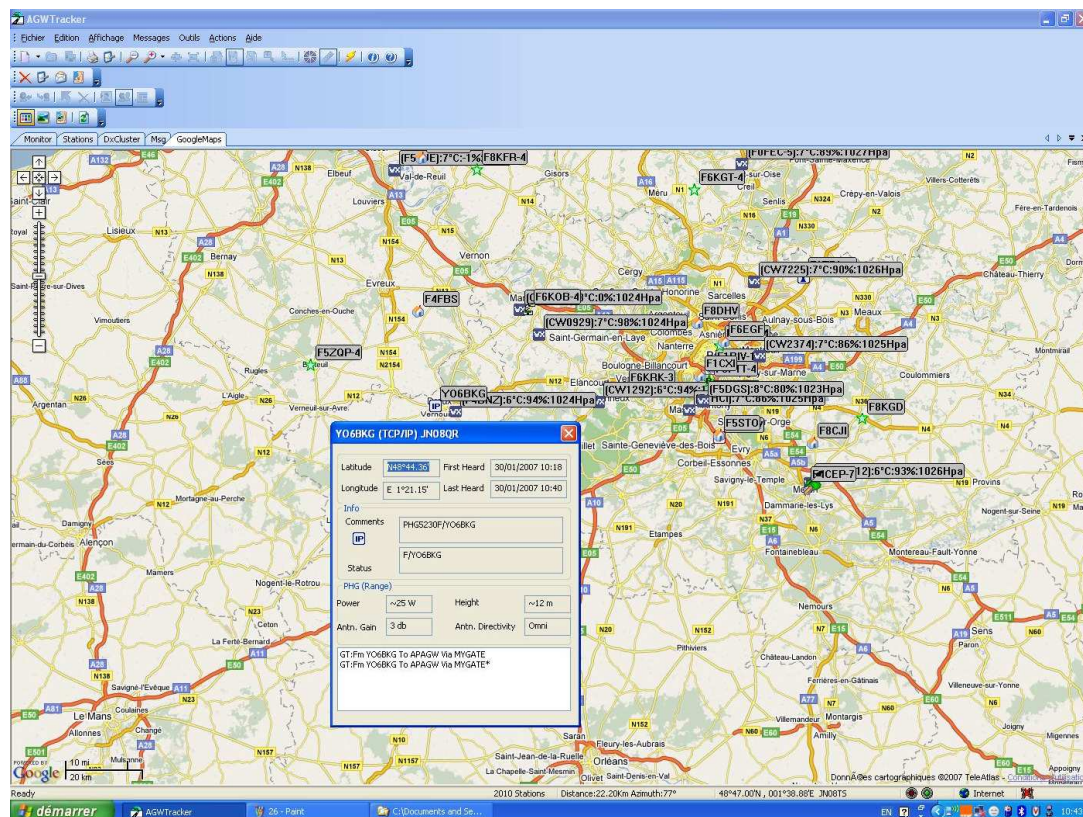




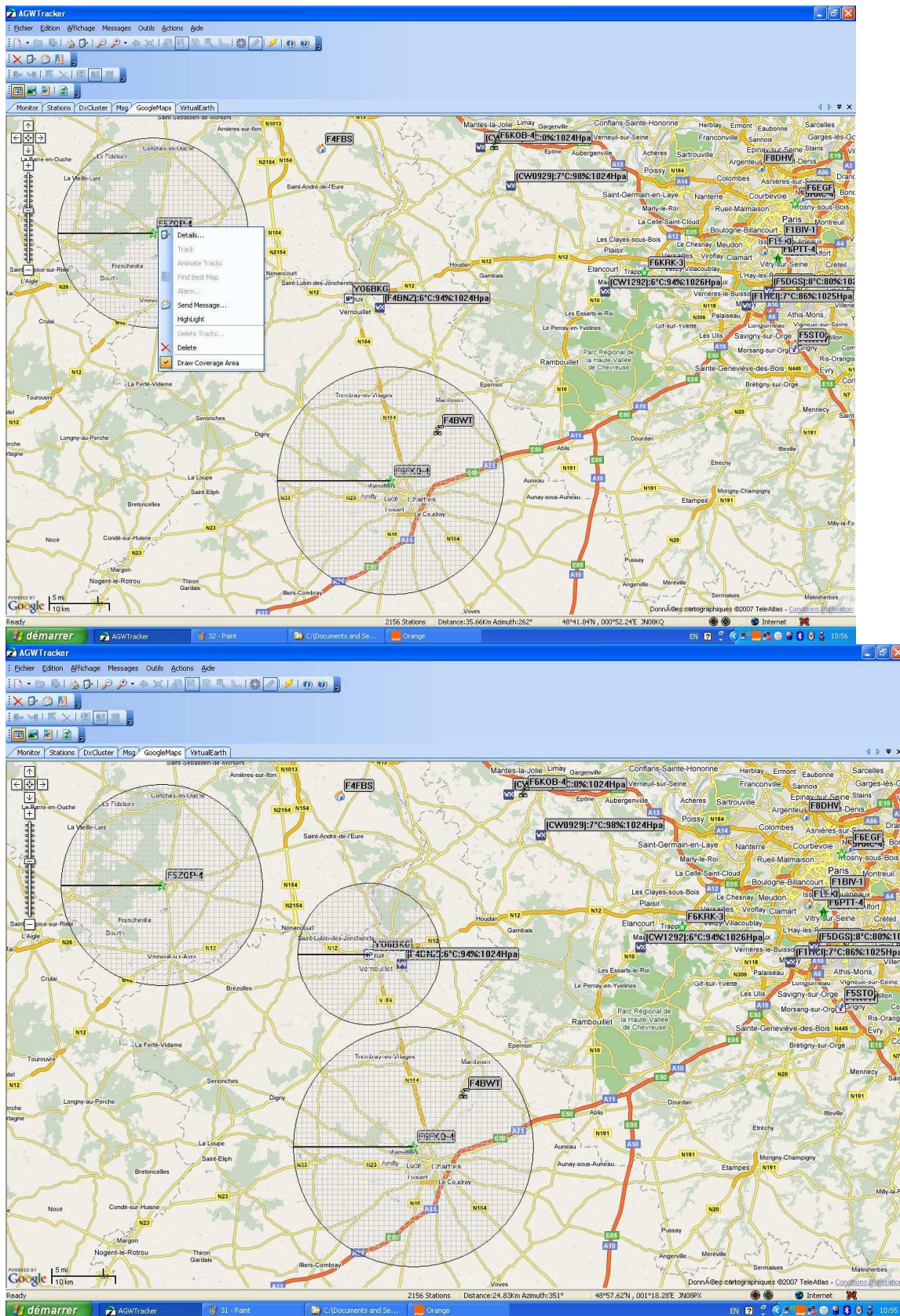
Daca dam Klik dreapta pe butonul mouse-ului se deschide un meniu cu mai multe optiuni



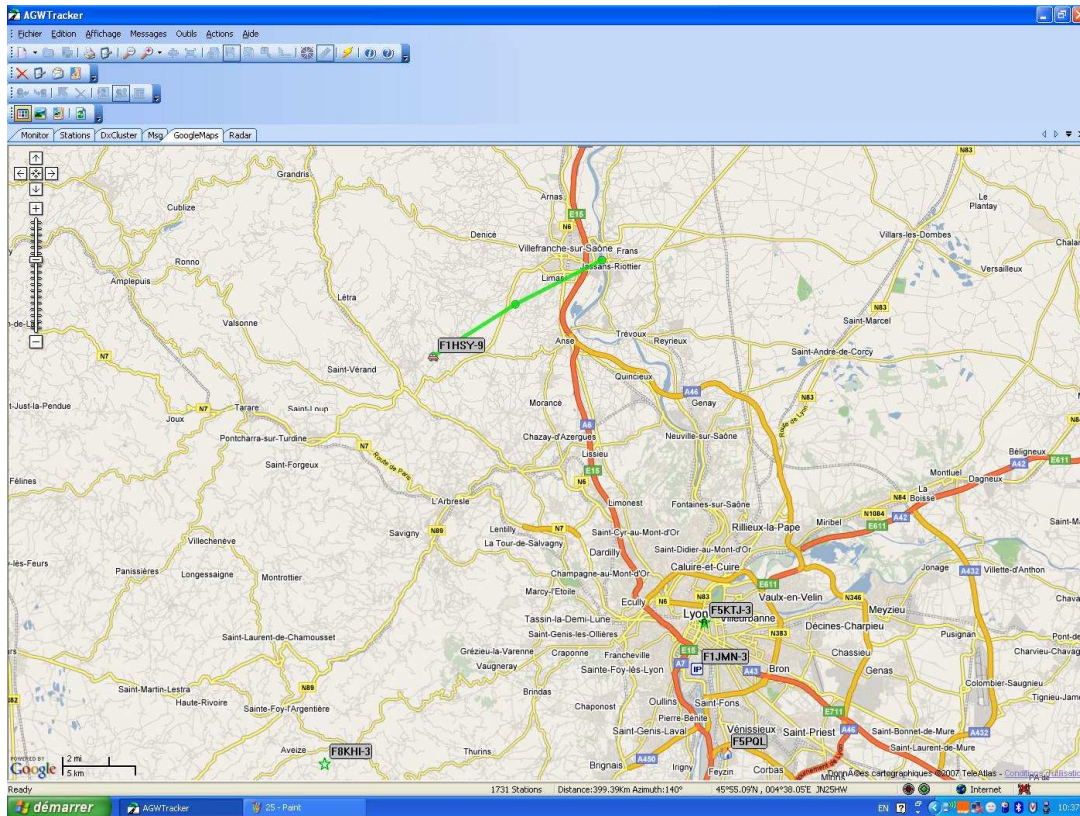
Cu « Details » – avem informatiile despre statia afisata :



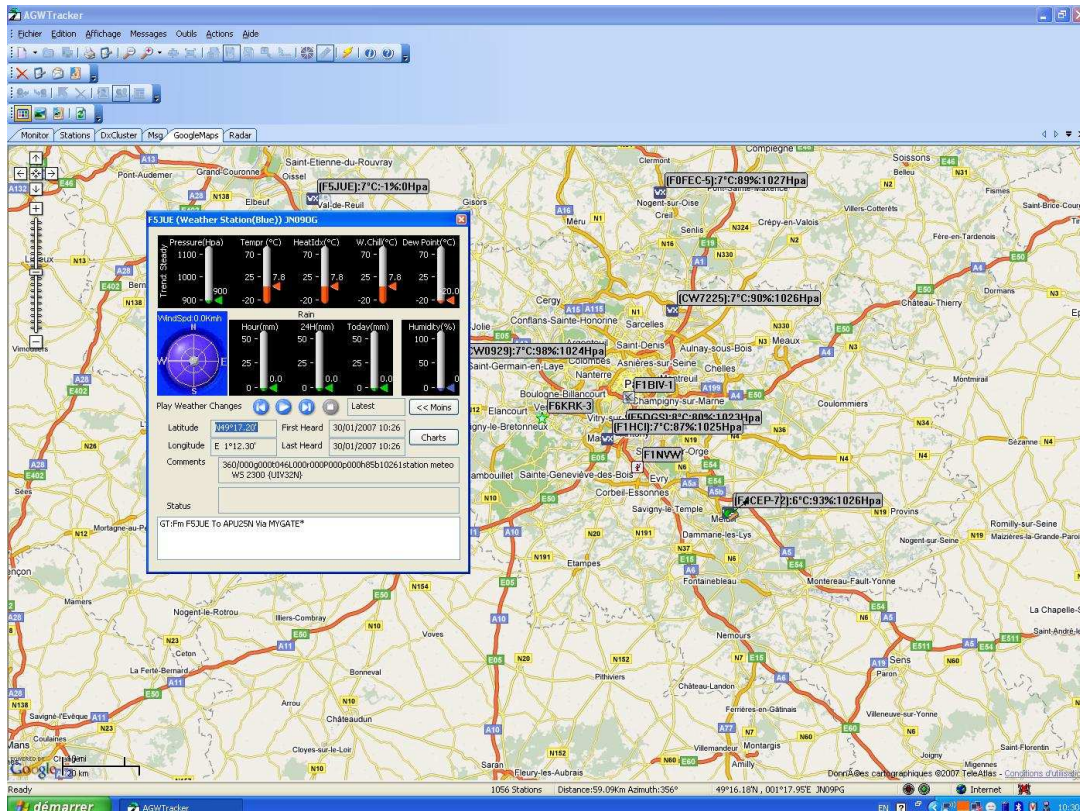
Cu optiune « Draw coverage area » zona de acoperire teoretica :



Cu « Track » traseul urmat de o statie mobila :



Daca o statie transmite date meteo (WX) ,in acelasi meniu « Detalii » se afiseaza datele meteo.Putem vedea si datele mai vechi de pina la o zi cu meniul play sau evolutia grafica .



Foarte rapid ,acestea sun principalele directii de care trebuie sa tine-ti seama ca sa pute-ti pune in functie o statie APRS fixa.

Intr-un al doilea pas dupa ce ne-am obisnuit cu mediul APRS vom putea sa adaugam un echipament radio pe frecventa standard EU de 144.800 Mhz ,un TNC sau un TNC simulat cu o placa de sunet in cazul ca statia e fixa ,un GPS.Tot George – SV2AGW,ne ofera un program shareware pentru simulare packet fara TNC (cu placa de sunet) cu programul « AGWPE – AGW Packet Engine ».

Daca aveti nevoie de documentatie f completa in engleza sau franceza pentru solutia cu placa de sunet ,o pot pune la dispozitie.

Daca aveti probleme ,pute-ti sa-mi adresati intrebari la yo6bkg@gmail.com

73,

Theo

F5VMH

Ex F/YO6BKG ex YO6BKG