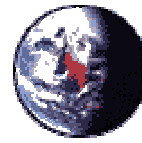




Université Kinshasa



Unité de Physique  
appliquée à l'espace



Université



Microsoft  
Research



Délégation Générale à la Recherche  
Scientifique et technologique



**SCHOOL ON SPACE WEATHER**  
**GIS, GPS Data Base, Internet and Computer Grid**  
**Kinshasa September 11 to 24, 2011**

Plan

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**This school was financially supported by RDC (79,7%)/ Ministry of Education and Universities of RDC, Ministry of Oil and Petrol and the University of Kinshasa/, the French embassy of Kinshasa (7,77%), MICROSOFT (7,52%), AUF (3,76) and GIRGEA (1,35%). Total cost : 66469€ for 90 participants.**

Bruno Kahindo  
Coordinator ISWI of RDC  
Local scientific secretary

Christine Amory-Mazaudier  
International scientific secretary

## **Committees**

### **Honorary Committee**

Minister of Superior training and Universities (ESU)  
Rector of Kinshasa University  
General Academic Secretary

### **Local Committee**

Prof. Lubunga Pene Shako – Fac Polytechnique/UNIKIN (President)  
Bruno Kahindo - Fac Polytechnique/UNIKIN (scientific secretary)  
Marcelline Ngomba –Fac Sc. Agronomique/UNIKIN (scientific secretary)  
Prof Baudouin Michel -ERAIFT  
Prof. Bertin Bagula Chibanvunya- Fac Polytechnique/UNIKIN  
Prof. Tozin Rosemond- Fac Polytechnique/UNIKIN  
Prof. Moanda Ndeko- Fac Polytechnique/UNIKIN  
Prof. Kazadi Mukenga- Fac des Sciences/UNIKIN  
Prof. Nzuru Nsekere- Fac Polytechnique/UNIKIN  
Muyaya Bruno- ERAIFT

### **International Committee**

Christine Amory-Mazaudier (France) - scientific secretary  
Nicolas Bergeot (Belgique)  
Prof. Téléphore Brou (France)  
Les Cottrell (USA)  
Bienvenue Dinga (Congo Brazzaville)  
Frédéric Ouattara (Burkina Faso)  
Viviane Pierrard (Belgique)  
Monique Petitdidier (France)  
Mikhael Zhizhin (Russie)

## I. Place of the school and logistic

Opening Ceremony : September 12 at 10h



The choral of the University of Kinshasa



Two ministers participating to the opening ceremony

Minister of Education and Universities

Minister of Oil and gas

General Academic Secretary



Bruno Kahindo : ISWI coordinator for RDC presenting the school activities



Photo at the end of the opening ceremony

Lecture room



Rooms for practical work



Room of the University of Kinshasa



Room of ERAIFT

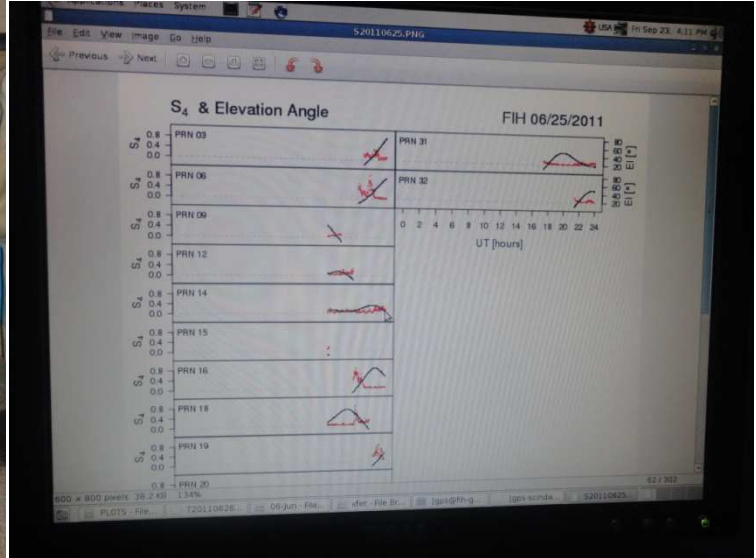
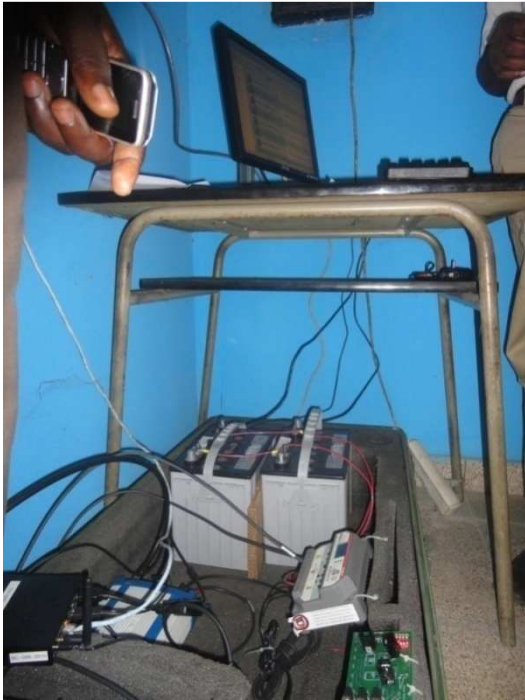
## Transport



## Lunch



## Visit of the laboratory of Space Science : SCINDA experiment



## Day on computer resources at the faculty of pharmacy

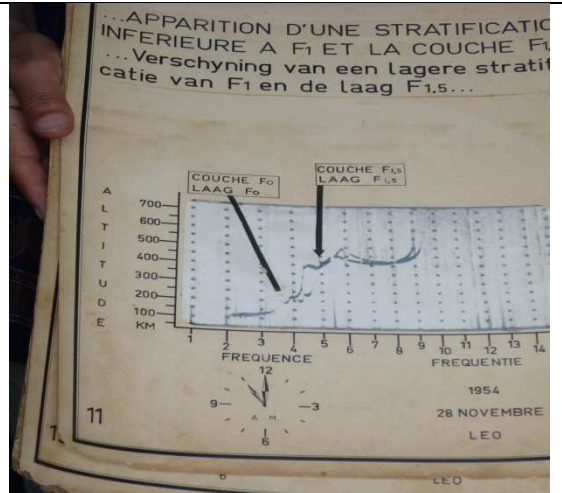


Visit of the observatory near Kinshasa

This observatory was operating during the International Geophysical Year 1957



Papa NDUAZU was working at the observatory in 19957



Ionogramme of November 28, 1954












Photo : closing ceremony

All the students received a certificate and the CD of the school



### III. TEACHERS

**Burkina Faso, Côte d'Ivoire, France, RC, RDC, Réunion, Russie, USA**

<p>AMORY-MAZAUDIER Christine , FRANCE</p> 	<p><u>Scientific secretary of the school</u>          Laboratoire de Physique des Plasmas (LPP) UPMC , 4 Avenue de Neptune 94107 Saint-Maur-des-Fossés, France  <a href="mailto:Christine.amory@lpp.polytechnique.fr">Christine.amory@lpp.polytechnique.fr</a></p>
<p>BROU Téléphore , Réunion - FRANCE</p> 	<p>University of the Réunion          UMR228 Espace-Dev (IRD,UM2, UAG, UR)          BP7151 97460 Saint-Deni cedex 9, La Réunion  <a href="mailto:Telesphore.brou@ird.fr">Telesphore.brou@ird.fr</a></p>
<p>COTTRELL Les, USA</p> 	<p>SLAC National Accelerator Lab., Stanford University Menlo Park, USA  <a href="mailto:cottrell@slac.stanford.edu">cottrell@slac.stanford.edu</a></p>
<p>DINGA Bienvenue, Republic of CONGO (RC)</p> 	<p><u>Coordinator ISWI of the Republic of Congo</u>          GRSEN/DGRST, Université de Marien Ngouabi, Brazzaville , Republic of Congo (RC)  <a href="mailto:bvs_dinga@yahoo.fr">bvs_dinga@yahoo.fr</a></p>
<p>KAHINDO Bruno, RDC</p> 	<p><u>Coordinator ISWI of RDC and local scientific secretary</u>          Faculty of Kinshasa, section of Physics applied to Space, Kinshasa, Republic Democratic of Congo (RDC)  <a href="mailto:bkahindo@gmail.com">bkahindo@gmail.com</a></p>
<p>NGOMBA Marcelline, RDC</p> 	<p>Faculty of Agronomy / Kinshasa, Republic off democratic Congo (RDC)  <a href="mailto:ngombalina@yahoo.fr">ngombalina@yahoo.fr</a></p>
<p>PETITDIDIER Monique, FRANCE</p> 	<p>LATMOS, Institut Pierre et Simon Laplace , 11 Boulevard d'Alembert, 78240 Guyancout, France  <a href="mailto:monique.petitdidier@latmos.ipsl.fr">monique.petitdidier@latmos.ipsl.fr</a></p>
<p>OUATTARA Frédéric, BURKINA FASO</p> 	<p><u>Coordinator ISWI of Burkina Faso</u>          Ecole Normale Supérieure, University of Koudougou, BP 376 Koudougou Burkina Faso  <a href="mailto:fojals@yahoo.fr">fojals@yahoo.fr</a></p>
<p>ZHIZHIN Mikhail , RUSSIA</p> 	<p>Space Research Institute (IKI) Russian Academy of Sciences          84/32 Profsoyuznaya Str., 117997, Moscow, Russia  <a href="mailto:Mikhail.zhizhin@gmail.com">Mikhail.zhizhin@gmail.com</a></p>

Training Team

From left to right : Mikhail, Marcelline, Bienvenue, Bruno, Monique, Les, Frédéric  
Téléspore was missing



Guest house for the professors



#### IV. Summary of the Programme

##### Training on GIS and Teledetection by BROU Yao and NGOMBA Marcelline

- GIS : Geographical Information System
- Teledetection

##### Training on Examplex of Combination of SIG and GPS, by DINGA Bienvenu

- GPS applied to navigation on the Congo River
- 

##### Training of COTTRELL Les on Internet

1. The Internet Digital Divide: the emergence of Africa, see <http://www.slac.stanford.edu/grp/scs/net/talk11/kinshasa.pptx>
2. Internet History, trends and futures, see <http://www.slac.stanford.edu/grp/scs/net/talk11/internet-history.pptx>
3. How is the Internet performing, see <http://www.slac.stanford.edu/grp/scs/net/talk11/perform.pptx>
4. Cell Phones, see <http://www.slac.stanford.edu/grp/scs/net/talk11/cellphone-work.pptx>
5. Smart phones & other Mobile computing, see <http://www.slac.stanford.edu/grp/scs/net/talk11/smartphones.pptx>
6. Diagnosing network problems for non-networkers, see <http://www.slac.stanford.edu/grp/scs/net/talk11/diagnosis.ppt>

Others

1. Geolocation, see <http://www.slac.stanford.edu/grp/scs/net/talk10/geolocation.pptx>
2. How does the Internet work, see <http://www.slac.stanford.edu/grp/scs/net/talk09/ictp-tcpip.ppt>
3. Network Measurements, see <http://www.slac.stanford.edu/grp/scs/net/talk10/internet-measure.pptx>

##### Training of ZHIZHIN Mikhail on SPIDR

The Space Physics Interactive Data Resource (SPIDR) (<http://spidr.ngdc.noaa.gov>) is a de facto standard data source for solar-terrestrial physics, functioning within the framework of the World Data Center System. It is a distributed database and application server network, built to select, visualize and model historical space weather data. SPIDR can work as a fully-functional web-application (portal) or as a Grid of web-services, providing functions for other applications to access its data holdings.

The hands-on training included basic course for interaction with the SPIDR web portal as well as in-depth lessons for web service use with SOAP and REST clients (Java, Matlab, IDL), installation and management of a SPIDR node, database architecture, and metadata management in SPIDR Virtual Observatory.

### **PETITDIDIER Monique & KALENDA Dibungi : Day on computer ressources.**

**Texte à mettre en anglais par monique**

### **Training of PIERRARD Viviane on Space Weather made by Christine Amory-Mazaudier and Bruno Kahindo**

The Sun  
Interplanetary medium  
The Interactions between the Sun and the Magnetosphere  
Ionosphere and Plasmasphere  
Motions of particule in a magnetic field  
Neutral Atmosphère (statosphere, toposphere ..)  
Effects of the solar radiations

### **Training of AMORY-MAZAUDIER Christine on The Earth's magnetic field**

Transient variations of the Earth's magnetic field associated to the different sources

- Regular source : atmospheric tides
- Irregular source : magnetic storms and all the kind of solar events

Use of the geomagnetic indices to characterize the event

Indices presented : AU,AL, Aa, Dst, Am

### **Training of KAHINDO Bruno : Tools of the ISWI programme SID et GPS**

- Presentation
- Use
- First Observations

### **Training of OUTTARA Frédéric : Equatorial Ionosphere and the use of GPS**

- Generalities on the Equatorial Ionosphere

- GPS : GNSS
- Systems of measure of Ionosphere
- Use of GPS for the determination of the TEC
- Method to determine the TEC from one stations

## V. SCHEDULE OF THE SPACE WEATHER SCHOOL SEPTEMBER 11-24, 2011

### First Week September 12 to 17 : Space Weather, GIS, Data base Internet 34.5h

	Monday 12	Tuesday 13	Wednesday 14	Thursday 15	Friday 16	Saturday 17
9h-10h30	Opening Ceremony	Space Weather Introduction <b>Christine</b>	Space Weather : The sun <b>Bruno</b>	Space Weather GIRGEA <b>Christine</b>	Data Base <b>Mikhail</b>	Computer resources And Grid <b>Monique</b>
10h30-11h00	Coffee Break					
11h00-11h15	GIS <b>Marcelline</b>	Internet <b>Les</b>	Contribution of ERAIFT at the management of natural resources in Subsaharienne Africa Reinforcement of capacities <b>Prof Baudouin Michel</b>	Internet <b>Les</b>	Internet <b>Les</b>	Computer resources and Grid <b>Monique</b>
11h15-12h30			Practical work On data base Group of Geopgraphy <b>Mikhail</b>			
12h30-14h00	Lunch					
14h00-15h30	Internet <b>Les</b>	Data base <b>Mikhail</b>	Practical work On data base Group of Physicists <b>Mikhail</b>	Internet <b>Les</b>	<b>Poster session</b>	Computer resources and Grid <b>Monique</b>
15h30-16h00	Coffee Break					
16h30-17h30	Data Base <b>Mikhail</b>	Data Base <b>Mikhail</b>	Space Weather <b>Christine</b>	Practical work On data base Group of the engineers <b>Mikhail</b>	<b>Poster session</b>	Computer resources and Grid <b>Monique</b>

## Second Week September 19 to 24 GIS, GPS/ GNSS , Ionospheric studies 30h

	Monday 19	Tuesday 20	Wednesday 21	Thursday22	Friday 23	Saturday 24
9h-10h30	GIS <b>Télesphore + Marcelline</b>	Equatorial Ionosphere /GPS <b>Frédéric</b>	Equatorial Ionosphere /GPS <b>Frédéric</b>	GPS/applications <b>Bienvenue</b>	Equatorial Ionosphere /GPS <b>Frédéric</b>	Closing ceremony
10h30-11h00	Coffee Break					
11h00-12h30	<b>GIS T+M</b>  Presentation of OSFAC <b>Florence</b>	Lecture GIS <b>T+M</b>	Lecture GIS <b>T+M</b>	Lecture GIS <b>T+M</b>	GPS/applications ISWI Intruments SID and GPS <b>Bienvenue+ Bruno</b>	
12h30-14h00	Lunch					
14h00-15h30	GIS <b>T+M</b>	Practical work GIS <b>T+M+B</b>	Practical work GIS <b>T+M+B</b>	Terrestrial Magnetism <b>Christine</b>	<b>Poster session</b>	
15h30-16h00	Coffee Break					
16h00-17h30	GIS <b>Bienvenue</b>	Practical work GIS <b>T+M+B</b>	Practical work GIS <b>T+M+B</b>	Meeting	Visit of a Laboratory SCINDA GPS <b>Bruno</b>	

## VI. PARTICIPANTS : ADRESSES E-MAIL

No	NOMS	Adresse E-mail
1	ABDOULAYE MAHAMAT OUMAR (ERAIFT)	brahimmahamat58@yahoo.fr
2	AMBAYI BIENU	bienuambayi@yahoo.fr
3	ANOUMOU KEMAVO (ERAIFT)	<a href="mailto:kemavoanoumou@yahoo.fr">kemavoanoumou@yahoo.fr</a>
4	ATIBU KAZINGUVU Emmanuel	<a href="mailto:emmatibu@yahoo.fr">emmatibu@yahoo.fr</a>
5	BAKAMBANA LUENBA Tresor	<a href="mailto:tresluemba@yahoo.fr">tresluemba@yahoo.fr</a>
6	BANTU JEAN MARIE (ERAIFT)	jmbvantu2002@yahoo.fr
7	BEYA TSHITENGE	heritierbeya@live.fr
8	BILONDA KABUYI MIREILLE	<a href="mailto:mkabuyi@gmail.com">mkabuyi@gmail.com</a>
9	BISIMWA MPARANYI	<a href="mailto:joel.bisimwa@yahoo.fr">joel.bisimwa@yahoo.fr</a>
10	BOFAYA EMBELE	<a href="mailto:jbof2009@yahoo.fr">jbof2009@yahoo.fr</a>
11	BOLALUETE LOHO Junior	<a href="mailto:juniorbolaluete@yahoo.fr">juniorbolaluete@yahoo.fr</a>
12	BOMPERE LEMO Petrus	<a href="mailto:pbompere@yahoo.fr">pbompere@yahoo.fr</a>
13	BOMPETA LOMBO Julien	<a href="mailto:julienbompeta@yahoo.fr">julienbompeta@yahoo.fr</a>
14	BONDOKI MANG'LISINGA	<a href="mailto:pey8300@yahoo.fr">pey8300@yahoo.fr</a>
15	BOSANGA NGWANGOY (CNPRI)	<a href="mailto:eddybosanga@yahoo.fr">eddybosanga@yahoo.fr</a>
16	DIANDA MUYA Jack	<a href="mailto:jack.dianda@gmail.com">jack.dianda@gmail.com</a>
17	ENYIMO KPELE Albert	<a href="mailto:enyimokpele@yahoo.fr">enyimokpele@yahoo.fr</a>
18	ESSONGO PITCHOU	<a href="mailto:pitchouessongo@yahoo.fr">pitchouessongo@yahoo.fr</a>
19	FUMBWE KATUKU WA MUSAMPO Joel	<a href="mailto:joelfumbwe@yahoo.fr">joelfumbwe@yahoo.fr</a>
20	KABAMBA BALUDIKAY BLAISE	baludikayblaise@yahoo.fr
21	KABENGELE Boanerges	<a href="mailto:boanerges3k@gmail.com">boanerges3k@gmail.com</a>
22	KABEYA KABONGO Ladis	<a href="mailto:kabeyslas@yahoo.fr">kabeyslas@yahoo.fr</a>
23	KALALA MUKULUMPA Junior	<a href="mailto:visionbiosphere@yahoo.fr">visionbiosphere@yahoo.fr</a>
24	KALAWU MANGALA Serge	<a href="mailto:sergek526@gmail.com">sergek526@gmail.com</a>
25	KALEMBA NDIMBA Lem'S	<a href="mailto:biologistelems@yahoo.fr">biologistelems@yahoo.fr</a>
26	KANKU MAKOLO Chérif	<a href="mailto:cherifkanku@yahoo.fr">cherifkanku@yahoo.fr</a>
27	KANYAMANDA KASEREKA	<a href="mailto:kanyhermen@gmail.com">kanyhermen@gmail.com</a>
28	KAPUTU NZIMBU (Primature)	<a href="mailto:gkapuku@yahoo.fr">gkapuku@yahoo.fr</a>
29	KASAI HODEO	<a href="mailto:kasayhodeo@gmail.com">kasayhodeo@gmail.com</a>
30	KASHIMBA KAYEMBE Michel	<a href="mailto:gabykash@yahoo.fr">gabykash@yahoo.fr</a>
31	KASONGO MUTOMBO Alex	<a href="mailto:alex_mutombo@yahoo.fr">alex_mutombo@yahoo.fr</a>
32	KATOMPA BIAYA Tony	<a href="mailto:tonybiaya@gmail.com">tonybiaya@gmail.com</a>
33	KAVAYA SIWIAN Yannick	<a href="mailto:yankavs@yahoo.fr">yankavs@yahoo.fr</a>
34	KAZADI MUTAMBAYI Alidor	<a href="mailto:alidor_kazadi@yahoo.fr">alidor_kazadi@yahoo.fr</a>
35	KAZYUMBA MBAYO (Min Hydr)	<a href="mailto:mbayokarrer@yahoo.fr">mbayokarrer@yahoo.fr</a>
36	KHONDE KHONDE Patrick	<a href="mailto:patricklipot@gmail.com">patricklipot@gmail.com</a>
37	KIBENGA N'SIMBA ARNO	<a href="mailto:arnokibenga@yahoo.fr">arnokibenga@yahoo.fr</a>
38	KIBULU KAPASA CYRILLE	<a href="mailto:ckibulu@gmail.com">ckibulu@gmail.com</a>
39	KIGOTSI KASEREKA Jean	<a href="mailto:jean_kigotsi@yahoo.fr">jean_kigotsi@yahoo.fr</a>
40	KONGODA LISIKA Louis	
41	KUNANA MANANGA	<a href="mailto:josekuman@yahoo.fr">josekuman@yahoo.fr</a>



42	KYALENGA MUTEMI CLAUDE	<a href="mailto:claudemut@gmail.com">claudemut@gmail.com</a>
43	KYUNGU KASOLENE Jean Claude	<a href="mailto:jckyungu@yahoo.fr">jckyungu@yahoo.fr</a>
44	LIYANDJA DJA LIYANDJA Tobit	<a href="mailto:tobitliyandja@yahoo.fr">tobitliyandja@yahoo.fr</a>
45	LUBADIKA KIS-PAKU Joseph	<a href="mailto:h.lubadika@yahoo.fr">h.lubadika@yahoo.fr</a>
46	LULA BABOLE A. Roger	<a href="mailto:lulababole@yahoo.fr">lulababole@yahoo.fr</a>
47	LUNDIKA NZASIABALA Pierre	<a href="mailto:pierrelundika@yahoo.fr">pierrelundika@yahoo.fr</a>
48	LUTETE NLANDU Eric	<a href="mailto:eric_lutete@yahoo.fr">eric_lutete@yahoo.fr</a>
49	MANGONI KEZIR SYLVAIN	<a href="mailto:mangonisylvain@gmail.com">mangonisylvain@gmail.com</a>
50	MANGONI NDINDIR Gloria	<a href="mailto:gogmangoni@gmail.com">gogmangoni@gmail.com</a>
51	MASSAMPU MAMBOTE Jean Paul	<a href="mailto:jp_mkn@yahoo.fr">jp_mkn@yahoo.fr</a>
52	MATOKO KOUEDIATOUKA DABNEY	<a href="mailto:mat_neys@yahoo.fr">mat_neys@yahoo.fr</a>
53	MATONDO BWAYI Calvin	<a href="mailto:matymatondo@yahoo.fr">matymatondo@yahoo.fr</a>
54	MAZAMA SUKAMI Jojo	<a href="mailto:mazamajjm@gmail.com">mazamajjm@gmail.com</a>
55	MBILOU GAMPIO URBAIN	<a href="mailto:muga68@yahoo.fr">muga68@yahoo.fr</a>
56	MEDOH EUGENIE	<a href="mailto:e.medoh@gmail.com">e.medoh@gmail.com</a>
57	MUAKANA MULUMBA Ruth	<a href="mailto:ruthmuak@yahoo.fr">ruthmuak@yahoo.fr</a>
58	MUDOGO NZANZU CELESTIN	<a href="mailto:cmudogo@yahoo.fr">cmudogo@yahoo.fr</a>
59	MUGISHA MUHIRE Toms	<a href="mailto:tomsmugisha@gmail.com">tomsmugisha@gmail.com</a>
60	MUHINDO SYAVULISEMBO	<a href="mailto:adal12@yahoo.fr">adal12@yahoo.fr</a>
61	MUKANDILA NGALULA Raphael	<a href="mailto:mukandilangalula@gmail.com">mukandilangalula@gmail.com</a>
62	MUKANYA KAYIMBI Michel	<a href="mailto:justmichelarnaud@gmail.com">justmichelarnaud@gmail.com</a>
63	MUMVUDI MULANGI Hilaire	<a href="mailto:mumvudi@yahoo.fr">mumvudi@yahoo.fr</a>
64	MUTOKE KAPAMONA Heritier	<a href="mailto:hermutokke@yahoo.fr">hermutokke@yahoo.fr</a>
65	MVUANDA LUKOMBO JERRY	<a href="mailto:jerrymvuanda@yahoo.fr">jerrymvuanda@yahoo.fr</a>
66	NDIADIA KANDOLO Emmanuel	<a href="mailto:emkandolo@yahoo.com">emkandolo@yahoo.com</a>
67	NDONGO MASAMWANI Martin	<a href="mailto:martin_ndongo@yahoo.fr">martin_ndongo@yahoo.fr</a>
68	NGANGURA AMISI (CNPRI)	<a href="mailto:amisialfred@yahoo.fr">amisialfred@yahoo.fr</a>
69	NGULWE TUMAINI WA RUSAATI	<a href="mailto:rusaati@yahoo.fr">rusaati@yahoo.fr</a>
70	NSHOKANO ISAAC (ERAIFT)	<a href="mailto:nshokanoisaac@yahoo.fr">nshokanoisaac@yahoo.fr</a>
71	NSIMBA TSASA Valère (CNPRI)	<a href="mailto:papytsasa@netscape.net">papytsasa@netscape.net</a>
72	NTANTA Josué Claude	<a href="mailto:claudentanta@yahoo.fr">claudentanta@yahoo.fr</a>
73	NTUMBA LOBO Esther	<a href="mailto:estherntumba2@yahoo.fr">estherntumba2@yahoo.fr</a>
74	NTWALI SHAKA Thierry	<a href="mailto:tshaka@netaca.cd">tshaka@netaca.cd</a>
75	NZEBA BANZA Elvire	<a href="mailto:elvire88@yahoo.fr">elvire88@yahoo.fr</a>
76	ODJOH ROLLAND Didier (ERAIFT)	<a href="mailto:odjohfr@yahoo.fr">odjohfr@yahoo.fr</a>
77	PELENDI KAMAKONDI (COHYDRO)	<a href="mailto:armapele@hotmail.com">armapele@hotmail.com</a>
78	PILI PILI (ERAIFT)	
79	PONGO MUSIKANDA Jibril	<a href="mailto:tony_pongo@yahoo.fr">tony_pongo@yahoo.fr</a>
80	SAMBA VIKANDI SILUSAWA Christian	<a href="mailto:cksambas@yahoo.fr">cksambas@yahoo.fr</a>
81	SEYA WUATUMBULA Felicien (Min Hydr)	<a href="mailto:felicienseya@yahoo.fr">felicienseya@yahoo.fr</a>
82	SIASIA DESANGES	<a href="mailto:siasiadessangess@yahoo.com">siasiadessangess@yahoo.com</a>
83	SINDOUSS TANGUY	<a href="mailto:ntsindous@yahoo.fr">ntsindous@yahoo.fr</a>
84	TITO LIMBAYA (Polytech)	<a href="mailto:tito_limbaya@yahoo.fr">tito_limbaya@yahoo.fr</a>
85	TSHITENGE MBUEBUE J.M	<a href="mailto:jeantshit@yahoo.fr">jeantshit@yahoo.fr</a>

86	UMBA DI UMBA Adrien	<a href="mailto:adrien2umba@gmail.com">adrien2umba@gmail.com</a>
87	VALU LUSAMBU	<a href="mailto:herivalu@yahoo.fr">herivalu@yahoo.fr</a>
88	YABILI MBAY Daddy	<a href="mailto:johnyabili@gmail.com">johnyabili@gmail.com</a>
89	YETA SUKISA	<a href="mailto:maspy_yeta@yahoo.fr">maspy_yeta@yahoo.fr</a>
90	YUHI MAKAMBA Stéphane	<a href="mailto:st_yuhi@yahoo.fr">st_yuhi@yahoo.fr</a>

