

Final Results Workshop for the UNEP/GEF project 'Establishing the Tools and Methods to Include the Nine New POPs into Global Monitoring Plan' and Inception Workshop for the UNEP/GEF Project 'Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm convention in the Africa Region

Set-up of the national and cross-cutting activities in the UNEP/GEF GMP2 project in Africa

Training of national laboratories

**Esteban Abad (CSIC)
Alejandra Torre (SCRC of GRULAC)**

Accra, Ghana, 6th - 8th July 2016

A few hints to take into account (lessons learned):

National trainings

Countries should decide which analytes and matrices are part of the training.

Training should go in line with the capacity of the laboratory

Laboratory must be operational

Some procurements are included within the scope of the GMP2

A few hints to take into account (lessons learned):

National trainings

Chemicals, reagents, standards should be in place before the training Starts

Experts can not travel with procurements or any chemical

Procurements should be take from the custom by the country and pay the taxes if so

Correct address and people in charge is a minimum requirement before any material is shipped, including phone, etc.

Typically, couriers do not accept solvents to be carried

Inception Workshop for the UNEP/GEF Project 'Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm convention in the Africa Region

PROCUREMENTS



AIR SAMPLES



**PASSIVE AIR SAMPLERS
SHIPPED TO COUNTRIES:**

110

**POLYURETHANE FOAM
SHIPPED TO COUNTRIES:**

420

Inception Workshop for the UNEP/GEF Project 'Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm convention in the Africa Region

GMP1

Strategic objective involves training of and scientific co-operation with several countries in the Region

Latin America

- Mexico
- Peru
- Barbados
- Antigua & Barbuda
- Bahamas
- Haiti
- Ecuador
- Brazil
- Chile
- Uruguay
- Caribbean (including Cuba)



Inception Workshop for the UNEP/GEF Project 'Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm convention in the Africa Region

Participating Laboratories

BRAZIL

CETESB

URUGUAY

DINAMA

ECUADOR

Ecotoxicology
Laboratory
Agrocalidad

JAMAICA

LATU
Pesticide Research
Laboratory

CHILE

ISPCH

MEXICO

CENICA

EULA

INHA
CEINPET
CEAC

PERU

DIGESA

CUBA

SENASA

CIMAB
INISAV

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'Training and capacity building' calendar

Lab Training Planner 2010																																						
	mon	tue	wed	thu	fri	sat	sun	mon	tue	wed	thu	fri	sat	sun	mon	tue	wed	thu	fri	sat	sun	mon	tue	wed	thu	fri	sat	sun	mon	tue	wed	thu	fri	sat	sun	mon	tue	
June		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
July				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
August						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
September			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
October					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
November	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30								
December			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					

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Professors

JAMAICA



Dr. B. Gomara



Dr. E. Moyano

CHILE



Mrs. M.G. Martrat



Dr. O. Núñez



Mr. C. Galban

BRAZIL



Mr. J. Sauló



Mr. M.A. Adrados

MEXICO



Mr. K. Martínez



Mr. J. Parera

URUGUAY



Dr. J. Caixach



Mr. C. Planes

ECUADOR



Mrs. M.G. Martrat



Mr. M.A. Adrados

CUBA

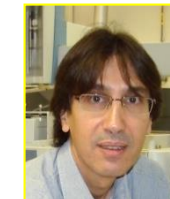


Dr. E. Abad



Mr. J. Parera

PERU



Mr. J. Sauló



Mr. K. Martínez

BRASIL

- **Place and dates of the training**

CETESB,
Sao Paulo, from 20th Setember to 24th Setember 2010.

- **Number of assistants 8**

- **Laboratories who participated in the training** CETESB

- **Analytes and matrices of interest**

pesticides and PCBs markers in human milk and serum
dioxin and furans in sediments, passive air, fish, sludge, ashes.

- **Instrumentation**

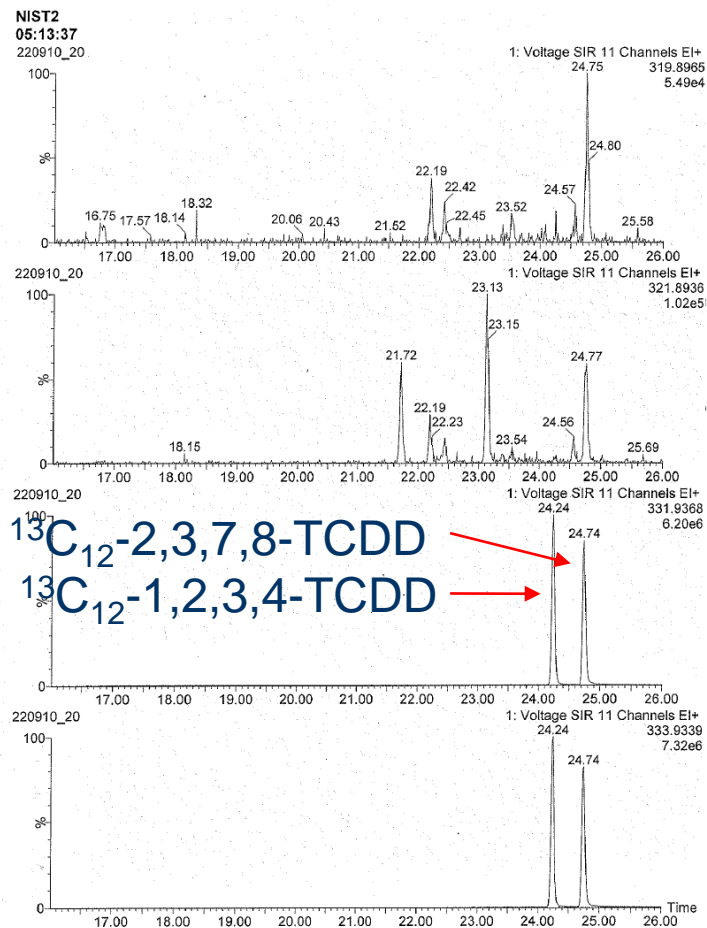
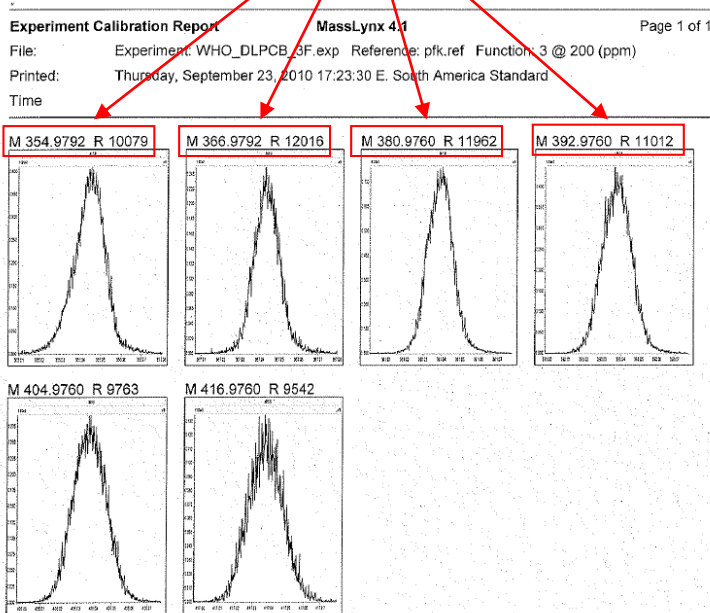
GC-ECD
GC-MS (quadrupole)
HRMS (AutoSpec Ultima NT)



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Resolución **BRASIL**
R > 10 000

Cromatograma HRMS sedimento



ECUADOR

•Place and dates of the training

Laboratorio de Ecotoxicología de la Comisión de Energía Atómica,
Quito, From 25th October to 29th October 2010

•Number of assistants 7

•Laboratories who participated in the training

Laboratorio de Ecotoxicología (Comisión Energía Atómica)
Agrocalidad (before SESA)

Analytes and matrices of interest

pesticides and PCBs markers in human milk, sediments, passive air,
fish, oil.

•Instrumentation

GC-ECD / GC-NPD

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ECUADOR

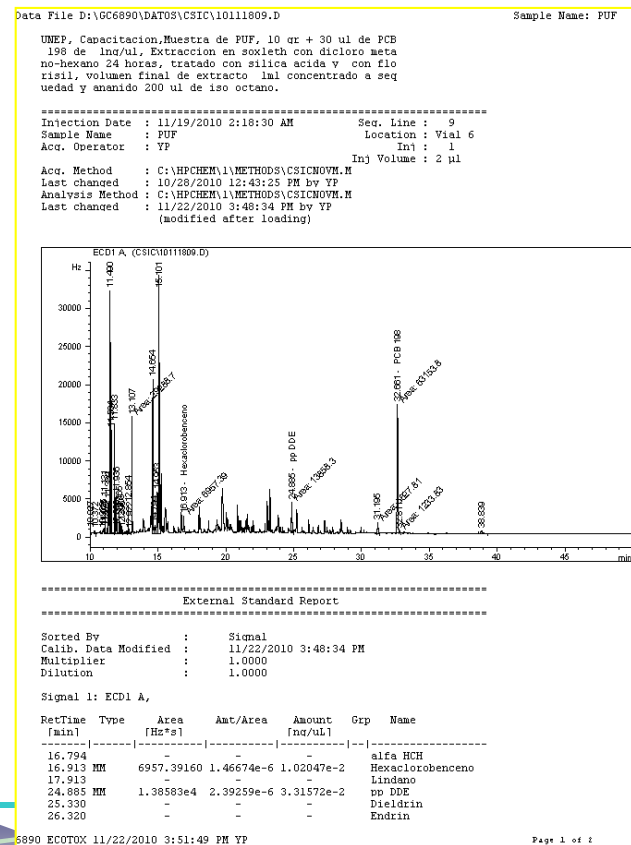
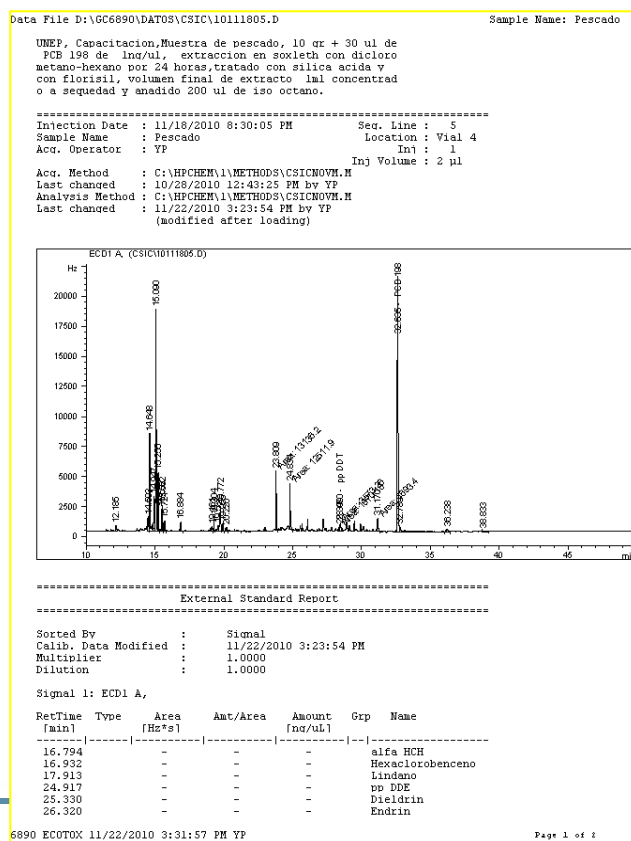


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RESULTS

ECUADOR

GC-ECD



CHILE

•Place and dates of the training

Laboratorio de Salud Pública,
Santiago de Chile. From 4th October to 8th October 2010

•Number of assistants 8

•Laboratories who participated in the training

Laboratorio de Salud Pública
EULA
CENMA

Analytes and matrices of interest

Pesticides, PCBs and dioxins in human milk, sediments, water.

•Instrumentation

GC-ECD
GC-MS

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CHILE



JAMAICA

•Place and dates of the training

Pesticide Research Laboratory,
Kingston. From 23th August to 27th August 2010

•Number of assistants 2

•Laboratories who participated in the training

Pesticide Research Laboratory

• Analytes and matrices of interest

Pesticides, PCBs and dioxins in human milk, sediments, air, water.

•Instrumentation

GC-ECD
GC-MS

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JAMAICA



URUGUAY

- **Place and dates of the training**

Laboratorio Tecnológico del Uruguay

Number of assistants 15

- **Laboratories who participated in the training**

Laboratorio Tecnológico del Uruguay (LATU)
Dirección Nacional de Medio Ambiente (DINAMA)

- **Analytics and matrices of interest**

Pesticides and PCBs in sediments

- **Instrumentation**

GC-ECD
GC-MS

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URUGUAY



MEXICO

•Place and dates of the training

Centro Nacional de Investigación
México, From 11th to 15th October 2010

•Number of assistants 6

•Laboratories who participated in the training

Centro Nacional de Investigación y capacitación

• Analytics and matrices of interest

Pesticides and PCBs in sediments, air, biota.

•Instrumentation

GC-ECD
GC-MS

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MEXICO



PERÚ

•Place and dates of the training

DIGESA, Dirección General de Salud Ambiental,
Lima, From 8th to 12th November 2010

•Number of assistants 10

•Laboratories who participated in the training

DIGESA, Dirección General de Salud Ambiental,
SENASA, Centro de Control de Insumos y Residuos Tóxicos.

• Analytes and matrices of interest

Pesticides, PCBs, dioxins and furans in sediments, air, biota, milk and fish.

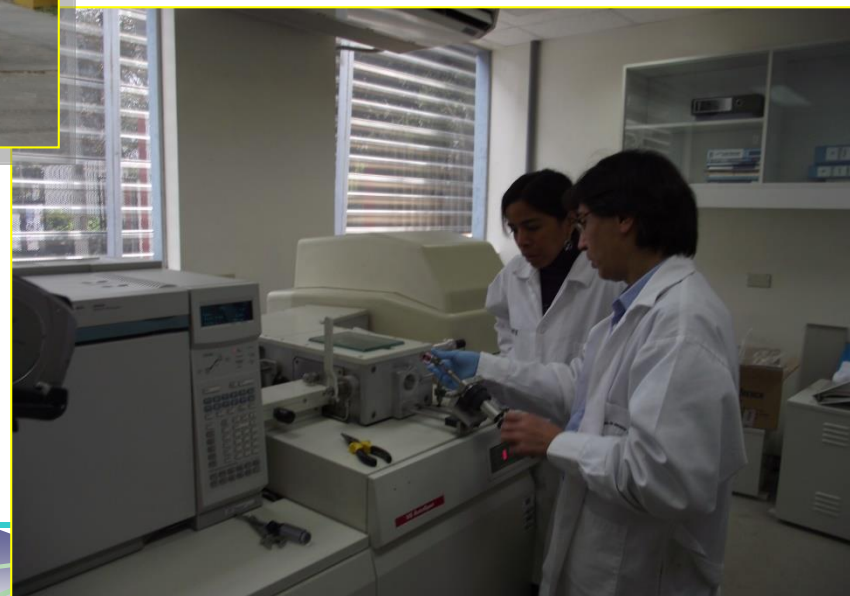
•Instrumentation

GC-ECD

GC-MS / GC-HRMS

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PERÚ



CUBA

•Place and dates of the training

Laboratorio de Sanidad Vegetal, La Habana,
La Habana, From 27th September to 1th October 2010

•Number of assistants 15

•Laboratories who participated in the training

Laboratorio de Sanidad Vegetal
Instituto de Nutrición e Higiene de los Alimentos
CIMAB
CEINPET
CEAC

• Analytes and matrices of interest

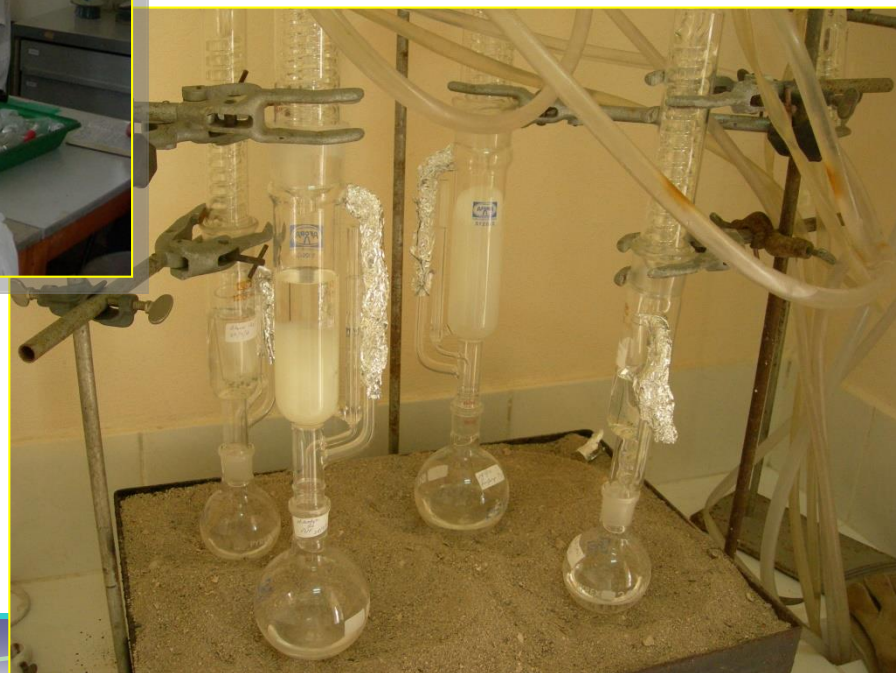
Pesticides, PCBs in sediments, air, biota, milk and fish.

•Instrumentation

GC-ECD

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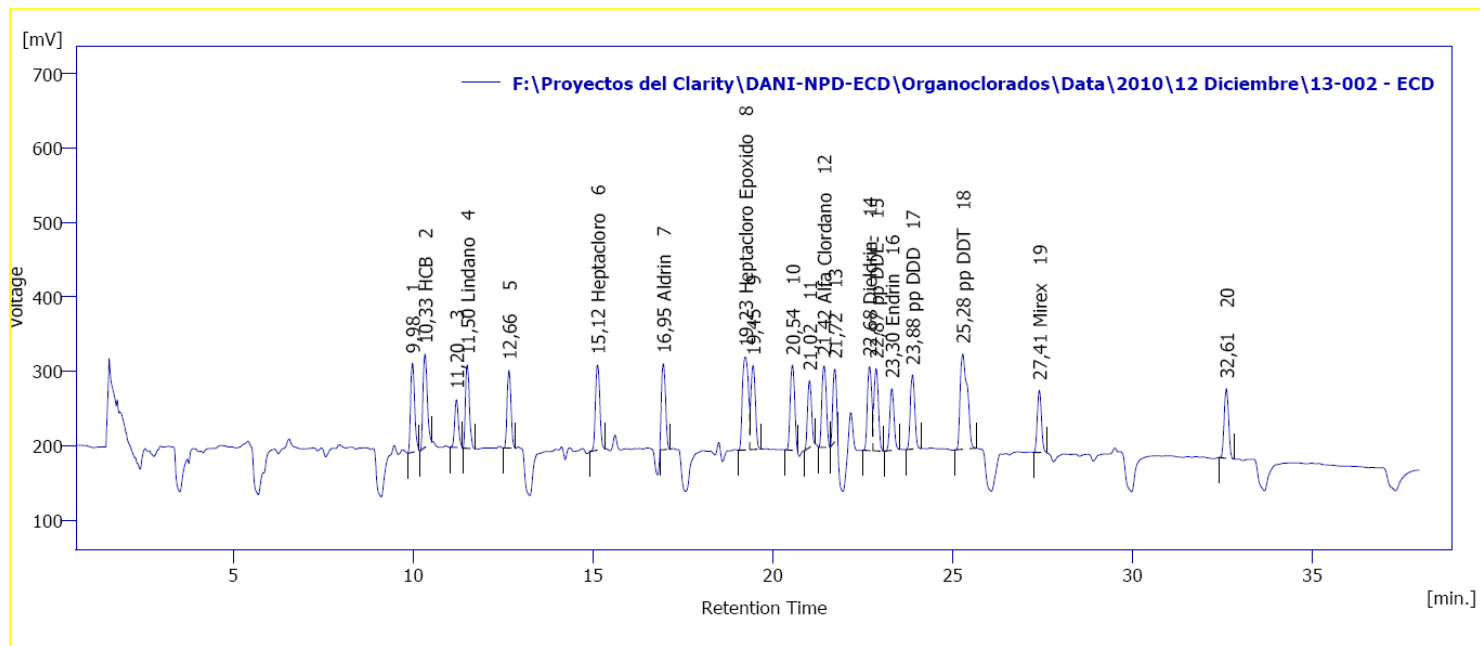
CUBA



RESULTS

CUBA

GC-ECD



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