

Training activities

TRAIN1: Summer schools

1st Summer School: F. Miglietta, IBIMET-CNR

Workpackage objectives and starting point of work at beginning of reporting period

Objectives (5 years)

TRAIN1 Annual summer schools

Objectives (months 1-18)

To train activities PhD students and young PostDocs in carbon science

Progress towards objectives

AIBORNE FLUX MEASUREMENTS & REMOTE SENSING

A CarboEurope Advanced Training Course

Roma, Italy, 24-30 October 2004

An Advanced Training Course of the CarboEurope Integrated Project was organised by the Institute of Biometeorology of the Italian National Research Council and was held in Rome, Italy. The course was specifically designed to provide advanced training to a limited number of young scientists and post-docs in a new area of research that is part of the CarboEurope Integrated Project. A series of scientific lectures initially provided basic information on atmospheric turbulence, boundary-layer meteorology, airborne remote sensing and the exchange of mass and energy between the land surface, vegetation and the atmosphere.

Then, the participants had the opportunity to gain some experience in the most advanced techniques that are currently used for airborne remote sensing and to measure surface fluxes from moving platform, like the SERAs (Small Environmental Research Aircraft). The final part of the course considered some field work that will be made using the Sky Arrow ERA research aircraft. The training course was successfully completed by all participants.

Table 2-TRAIN1.1: Deliverables List

Del. no.	Deliverable name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
TRAIN 1	Advanced Training Course in Airborne Flux Measurements	TRAIN	8		IBIMET-CNR

Table 2-TRAIN1.2: Milestones List

No milestones defined.

TRAIN 2: Educational training at the secondary school level

Activity Leader: Philippe Saugier, SAUG

Workpackage objectives and starting point of work at beginning of reporting period

Objectives (5 years)

TRAIN 2: Educational training at the secondary school level

Objectives (months 1-18)

- To produce a basic set of educational resources for secondary schools in the IP website
- To involve key multipliers to disseminate these resources to a large number of teachers and young people in Europe
- To stimulate direct contacts between CarboEurope researchers and secondary school students

Starting point of work at beginning of reporting period: Activity started in January 2004.

Results achieved after 12 first months

- Identification of a first group of scientists willing to actively participate to educational activity
- Educational strategy paper submitted to all CE members : “A few suggestions for decentralised school activities facilitated by CE-IP partner institutions as regional multipliers”
- “CE-Education” e-diffusion list open (ca. 80 members)
- Outline of educational website & booklet ready
- 1st version (French) of educational booklet ready for translation to English & reviewing.
- Agreement with Young reporters for the environment to be one of the main European-level multipliers by adding a “global change” topic to their 6 main investigation topics.
- Linking with CarboOceans IP, by inclusion of a similar educational activity to the proposal ; positive evaluation notified in May 2004, contractual negotiation in course.
- preparation & announcement of CarboEurope workshop on school projects, to be held in France in March 2005.
- pre-identification of places for pilot local programmes involving CE institutions
- contribution to two proposals for broader educational activities submitted at the science & society call closed on 15/12/2004 : Espere-AET (Earth-Science-Express) & Preklimatteam.

Main changes from initial plans

- Education activity will be in common with CarboOceans (negotiation phase to be concluded by the end of 2004). This will give a small additional budget and broadening of focus to oceans and possible involvement of more research groups into education activity.

- CE research institutions are now approached as potential “multipliers” of the educational activity instead of only external non-scientific organisations as initially stated in the proposal. The goal is to support development of regional educational programmes aiming at encouraging & supporting schools to make interdisciplinary projects about global change research (through information, training, follow-up & scientific mentoring, local events etc.).

In that respect, involvement of other national multipliers (e.g. teacher associations, NGOs, school authorities) is left to research institutions as part of their educational initiatives, and involvement of European multipliers (existing environmental education / science education networks) remains my task as coordinator.

Table 2-TRAIN2.1: Deliverables List

Del. no.	Deliverable name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
TRAIN 2	Educational package for adaptation and dissemination by involved multipliers	TRAIN	18	<i>Scheduled on time (June 2005)</i>	SAUG
TRAIN 3	Educational section for secondary schools on CarboEurope website	TRAIN	18	<i>Scheduled on time (June 2005)</i>	SAUG

Table 2-TRAIN2.2: Milestones List

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
	Multipliers identified, dissemination agreements concluded, educational focus defined	TRAIN	9	Information delivered to CarboEurope members on 9/7/2004 (*)	
	Field missions completed, basic educational resources written	TRAIN	18	<i>Scheduled on time (June 2005)</i>	

(*) document “A few suggestions for decentralised school activities” diffused to all CE members, explaining the change referred above & actions to be taken by CE members.