

Minutes of the 4th RECIPE progress meeting
held on Tuesday 17th – Friday 20th of May 2005
at Scheyern (near Munich), Germany

Present:

Steve Chapman (MLURI) (Project Co-ordinator and Chair)
 Harri Vasander (UNHEL); Mika Yli-Petäys (UNHEL); Viviane Froidevaux (LINECO); Alexandre Buttler (UFC-CE, EPFL); Fatima Laggoun-Defarge (ISTO); Walter Rosselli (AR-WSL); Emanuela Samaritani (AR-WSL); Rebekka Artz (MLURI); Laure Comont (ISTO); André-Jean Francez (ECOBIO); Estelle Bortoluzzi (UFC-CE/LBE); Daniel Gilbert (UFC-LBE); Amandine Fantoni (UFC-LBE); Antonis Chatzinotas (UFZ); Michael Schloter (TUM-BO); Andreas Gattinger (TUM-BO); Georg Gerl (TUM-BO); Edward Mitchell (EPFL); Philippe Grosvernier (LINECO); Gerald Schwarz (MLURI); Clare Trinder (MLURI).

Date	Description	Action
Tuesday (17 th)	<p>13:00–17:00 Arrival at Scheyern (some flight delays postponed scheduled start)</p> <p>18:00 Pre-meeting at Versuchsgut Scheyern, Prielhof, Seminar room, 1st floor</p> <ul style="list-style-type: none"> - Welcome - Domestic arrangements - Introductions including Emanuela Samaritani (attending for the first time) - Overview of meeting - Acceptance of minutes of ‘Carentan’ meeting - some minor typos to correct <p>19:30 Barbeque at Versuchsgut Scheyern, Informal get together.</p> <p>Field visit of the Agroecological Research Station Scheyern</p>	Steve
Wednesday (18 th)	<p>09:00–13:00 Presentations - these were PowerPoint presentations on current status of progress by:</p> <p>Ed Michell Antonis Chatzinotas Daniel Gilbert Rebekka Artz André-Jean Francez Laure Comont Andreas Gattinger Mika Yli-Petäys</p> <ul style="list-style-type: none"> • Gas flux measurements to be in $\text{nmol m}^{-2} \text{s}^{-1}$ <p>All PowerPoint presentations should be passed on to Rebekka who will compile these and include them on the RECIPE website.</p> <p>14:00–18:00 Breakout groups:</p> <p>Group S (socio-economics)</p> <p>Group G (gas exchange and diversity)</p> <p>Group M (microbial and molecular microbial ecology)</p>	<p>Presenters/ Rebekka</p> <p>(See Group S report)</p> <p>(See Group G report)</p> <p>(See Group M</p>

	<p>18:00–18:30 Joint session on management issues</p> <ul style="list-style-type: none"> WP 07 will officially begin in August (according to Gantt chart). Responsibilities are: <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding-left: 20px;">Responsible</td> <td style="width: 20%;">MLURI</td> <td style="width: 20%;">Steve/Gerald</td> <td style="width: 30%;"></td> </tr> <tr> <td style="padding-left: 20px;">Primary</td> <td>AR-WSL</td> <td>Jean/Walter</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Secondary</td> <td>UFC-CE</td> <td>Alexandre</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Secondary</td> <td>ISTO</td> <td>Fatima</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Secondary</td> <td>ECOBIO</td> <td>André-Jean</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Secondary</td> <td>UNHEL</td> <td>Harry</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Secondary</td> <td>LINECO</td> <td>Philippe</td> <td></td> </tr> </table> <ul style="list-style-type: none"> A planning meeting to discuss final stages of RECIPE, and WP 07 in particular, will be held on 30th September/1st October following on from the socio-economic group meeting to be held 29th/30th September. It is hoped that the above mentioned persons will join the socio-economic group (if not already present). A common database (spreadsheet) is needed for data needed for write-ups (outstanding from Baupte minutes). Notes from group sessions to be sent to Steve for including in minutes Next major meeting will be the final one. To be held in Scotland, hosted by MLURI (venue yet to be decided), 23rd–25th January 2006, inclusive. <p>19:00 Evening meal at Klosterschänke</p>	Responsible	MLURI	Steve/Gerald		Primary	AR-WSL	Jean/Walter		Secondary	UFC-CE	Alexandre		Secondary	ISTO	Fatima		Secondary	ECOBIO	André-Jean		Secondary	UNHEL	Harry		Secondary	LINECO	Philippe		<p>report)</p> <p>Steve/Gerald Jean/Walter Alexandre Fatima André-Jean Harry Philippe</p> <p>Steve</p> <p>Andreas</p> <p>Gerald/ Alexandre/ Edward Steve</p>
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<p>Thursday (19th)</p>	<p>09:00–12:00 Continuation of group meetings and further discussion</p> <p>Feedback from breakout groups:</p> <p>Group S (socio-economics) given by Gerald Schwarz – Discussed topics:</p> <ul style="list-style-type: none"> Responsibilities for socio-economic report? <ul style="list-style-type: none"> Germany–Andreas (?), maybe with student help Scotland–Gerald Finland–Harry, with student in autumn France–Amadine Switzerland–Philippe and Walter Specific socio-economics meeting to be held 29/30 September in Basel–Zurich area <p>Group G (gas exchange and diversity) given by Alexander Buttler – Discussed topics:</p> <p>WPI</p> <ul style="list-style-type: none"> Continuation by Estelle until start of September. This will give a second year of data and indicate year-to-year variation. Mika will also finish at the start of September. Position of methane? Is it needed for modeling? Data is patchy but could be added together for all countries? Methane is important in calculating GWP and should be compared with the flux of CO₂ in each situation. Emanuela will work at Chaux d’Abel and do full measurements: every week for respiration and every two weeks for photosynthesis <p>WPII</p>																													

	<ul style="list-style-type: none"> • Ideally fortnightly measurements. • Difficulties with LAI in Scotland. Rebekka will not measure this but rely on plant cover and temperature as model inputs. • Desiccation Index - should continue to be read • Publications – PhD work will be dealt with individually but joint publications may be later • Methane should be modeled if possible • Experiment will be sampled soon (in June) – take up series one (36 pots) and continue gas measures on series two (36 pots) • Need to measure: <ul style="list-style-type: none"> No. leaves (for Eriophorum) Lengths of leaves for some plants Sphagnum density (no. of capitula) and length (using stick as wooden benchmark); cranked wires not really needed Temperature in chamber Temperature outside chamber at 5cm, 10cm and 20cm. PAR Water-table depth • In September, wash out roots to give above and below ground biomass <p>WPIII</p> <ul style="list-style-type: none"> • Done at Russey for one year with harvest in August • Require methane and carbon dioxide ¹³C analysis • Question of slicing cores – this could be used for ¹³C analysis in PLFA and DNA (should be tried) • Sugars could be done in the soluble fraction but requires HPLC–MS • Question of fate of ¹⁵N – André-Jean to do Microbial biomass C and N <p>Group M (microbial and molecular microbial ecology) given by Edward Mitchell – Discussed topics:</p> <ul style="list-style-type: none"> • Correlation of FTIR and organic matter • Need for common units–w.r.t. dry weight, hence need bulk density • Environmental data required: <ul style="list-style-type: none"> Sampled in November Problem of spatial variability Require pH/water table depth/C&N/organic N Extra analysis–P, K, etc? Plant identities • How to analyze data? To use similarities of differences? Use PCA and DCA to look for explanatory variables. Look for similarities; work on subsets that show similarities. • What enzymes can be used in DNA work to optimize bands? • CANOCO as a useful package • Radiocarbon dating using ²¹⁰Pb • Microbial diversity should be better (more apparent?) in Spring at WPI sites • Short-term experiment at Russey on age of underlying peat • Question of depth of sampling for WPII? Suggests 0–10cm and 10–20cm (NB original Description of Work states every cm!). However, there is a practical upper limit for the total number samples that can be handled—suggested to be 288 (144 for PLFAs hence reduce no. sites to two for this analysis) <p>13:00–21:00 Field trip guided by Dr Matthias Drösler (TUM): Renaturation of</p>	<p>André-Jean</p> <p>Fatima</p> <p>Fatima/ Rebekka</p> <p>Rebekka Ed to help Rebekka P. Steinmann</p>
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	degraded peatlands (Kendelmühlfilz, near Rosenheim), evening meal near the field site.	
Friday (20 th)	Participants disperse	