ACTIVITY	INPUTS	OUTCOMES
1a. Regional Climate Projections	- GCM stalics)	Regional scale climate change scenarios:
Parameterize RAMS and LEAF regional	- Topography	(a) current land cover as a control run, (b)
climate models for E. Africa	- Current land cover	two extreme land cover changes
1b. Local Level Climate Analysis	- GCMs	Historical climate analyses including trends
 Analyses of historical data 	- Historical meteorological records	and variability, & their relationship to ENSO;
 Validate RCM output with observations 	for East Africa	Scenarios at high spatial & temporal
- Downscaling from global to regional and		resolutions; Present and future daily
local scales for high resolution scenarios		weather series for NPP simulations
2. Ecosystem productivity simulations		Productivity under historical and projected
Agricultural/ecosystem modeling using	conditions for vegetation	climate conditions; maps of areas
DSSAT, RANGEMOD, BIOME3 models	 Soils characteristics 	particularly vulnerable to climate change
3. Land Use/Cover Projections	How climate change will affect	Scenarios of regional land use change
- Identify LULCC patterns& drivers from case	distribution of land uses	assuming no climate change (control runs),
studies and role-playing simulations	 Long-term case studies identify 	and scenarios that include the impact of
- Model& up-scale to region w/ LTM/MABEL	pattterns, driving forces & their	climate change on land use
 Add climate change as driver 	surrogate variables	Scenarios of land cover based on projected
- Convert land use to cover classes	- Regional data bases	land use
4. Land Cover Parameters		Regional distribution of land surface
Specify current and projected land surface	- Satellite imagery	parameters (albedo, LAI, etc.) varying
parameters using imagery, algorithms, field	- Biophysical & socioeconomic	seasonally (past, current & future
validation & learning sites from Activity 3	data	scenarios)
5. Response of the RCM		Regional climate simulations that
Conduct experiments with land cover	parameters	incorporating altered land surface. These
scenarios, testing the RCM's sensitivity to		feed the next iteration of NPP simulations&
types and magnitudes of land cover changes		land use change analyses
6. Integrated Analysis of Climate-Land	\mapsto Outputs and interpretations of	An integrated analysis that compares and
Feedbacks	Activities 1-5	contrasts different coupled climate-land
Conduct experiments with linked models of		systems and their implications for
climate-land use-land cover change		livelihoods, science and policy