

QUERCC overview

JULES Science Meeting: Jan 2008

Rosie Fisher

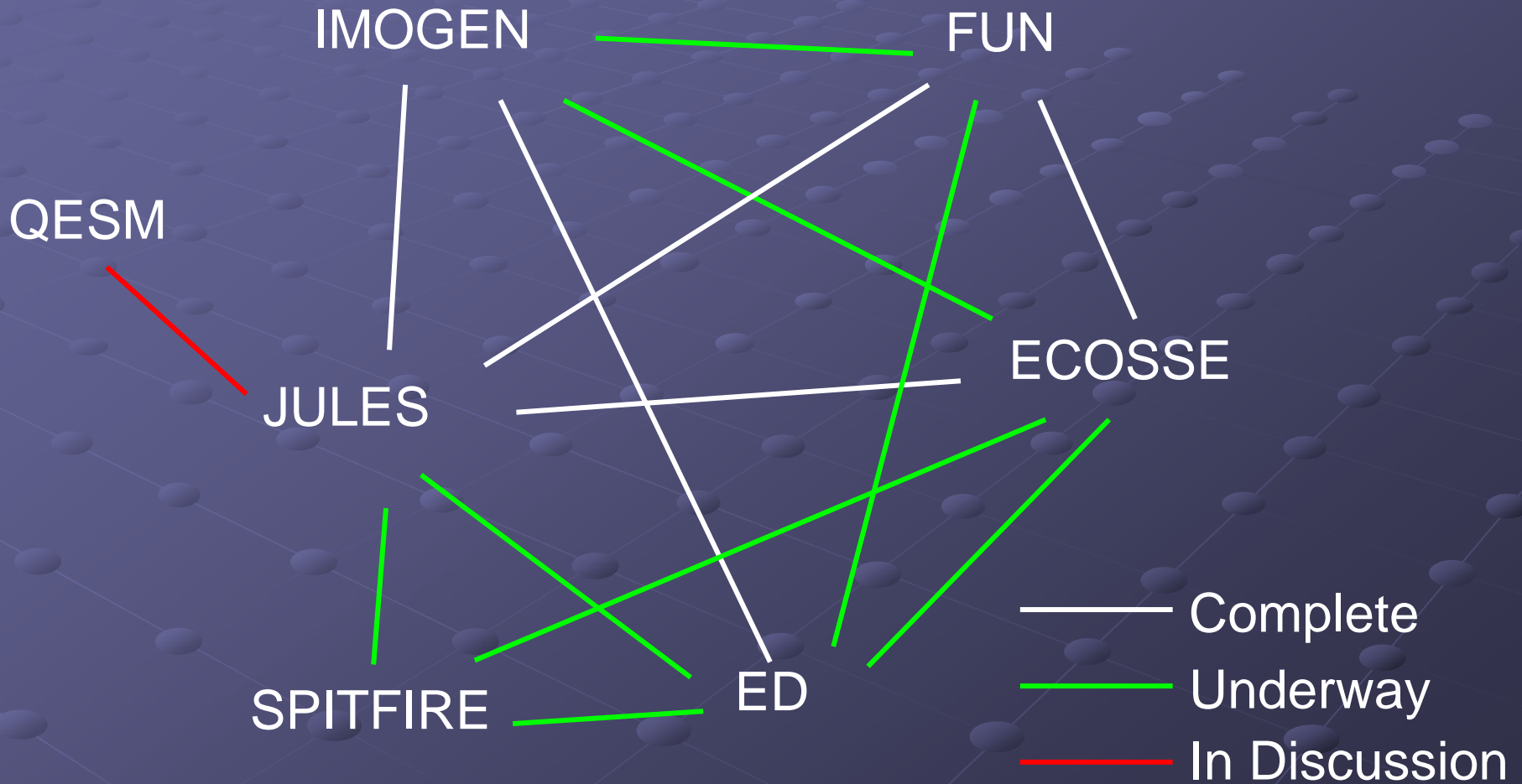
University of Sheffield

JULES-based activities of QUERCC

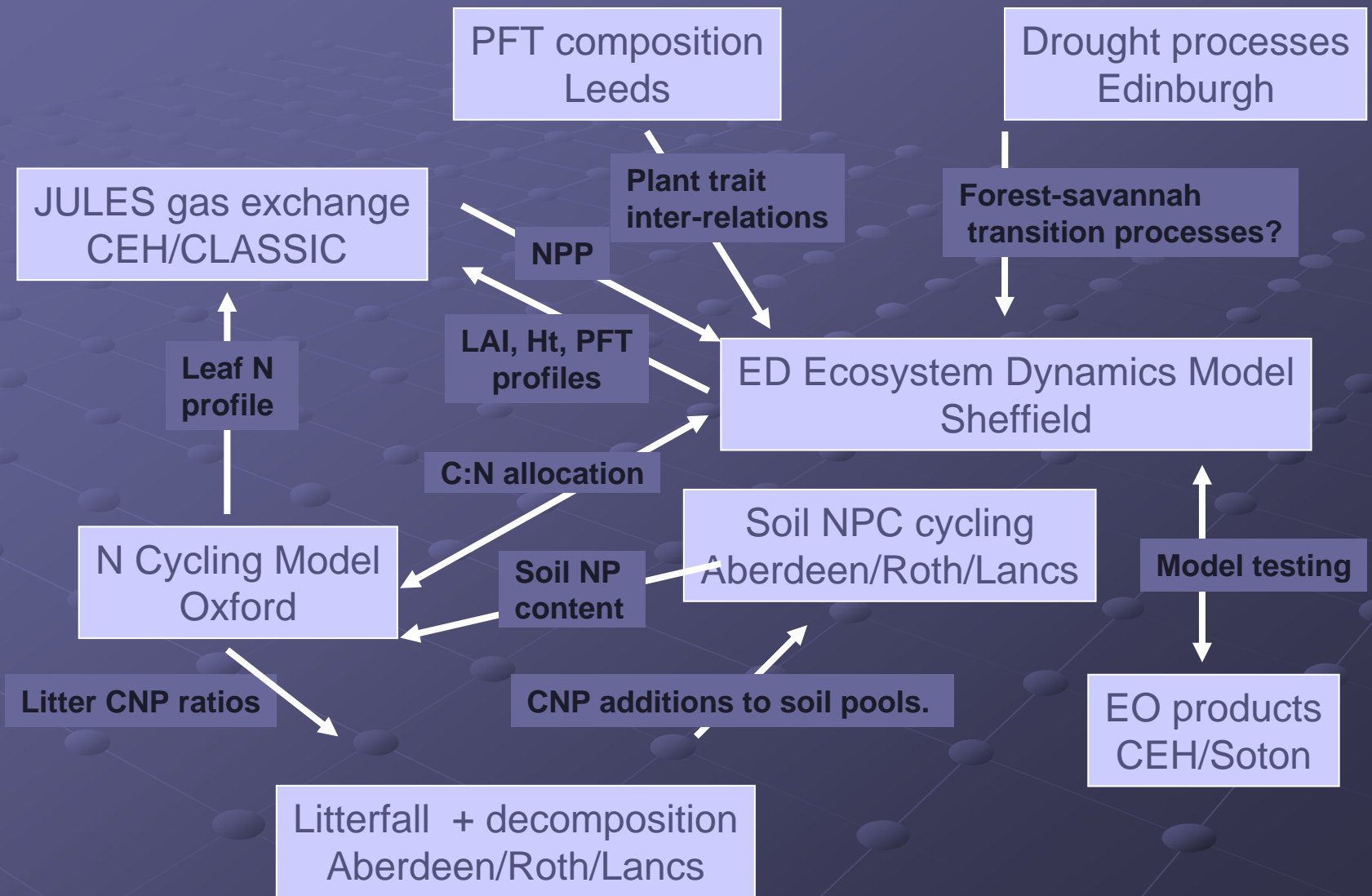
- Soil: Modelling of C:N:P cycles: **ECOSSE/SUNDIAL**
- Vegetation Dynamics: **ED**
- Nitrogen soil-vegetation interactions: **FUN**
- FIRE_MAFS (QUEST project): **SPITFIRE**
- Ongoing development of **IMOGEN**

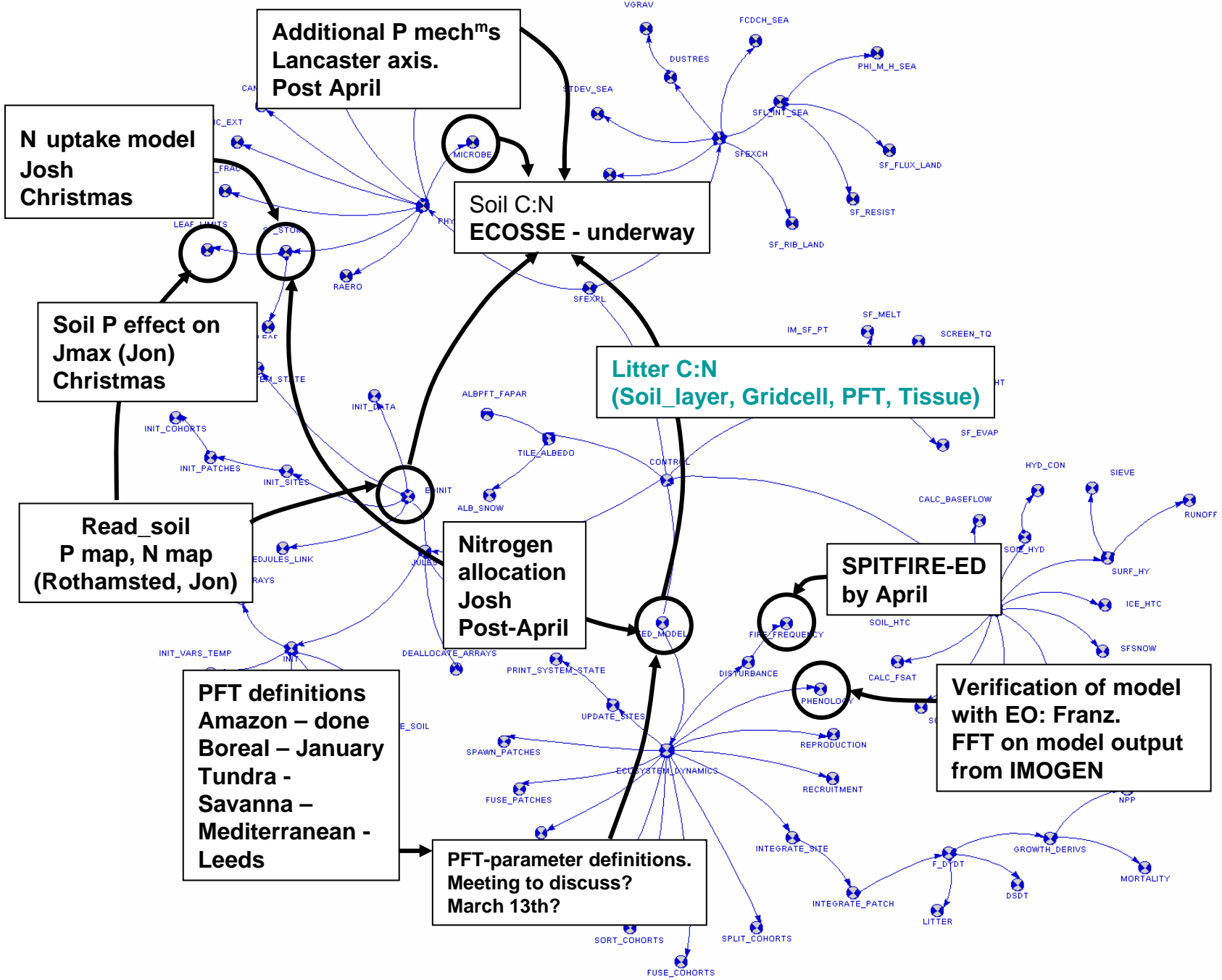
- EO observations of phenology
- Data derived PFT definitions.

Status of model coupling



QUERCC Interactions





**N uptake model
Josh
Christmas**

**Additional P mech^{ms}
Lancaster axis.
Post April**

**Soil C:N
ECOSSE - underway**

**Litter C:N
(Soil_layer, Gridcell, PFT, Tissue)**

**Soil P effect on
Jmax (Jon)
Christmas**

**Read_soil
P map, N map
(Rothamsted, Jon)**

**Nitrogen
allocation
Josh
Post-April**

**SPITFIRE-ED
by April**

**Verification of model
with EO: Franz.
FFT on model output
from IMOGEN**

**PFT definitions
Amazon - done
Boreal - January
Tundra -
Savanna -
Mediterranean -
Leeds**

**PFT-parameter definitions.
Meeting to discuss?
March 13th?**