How to link the BpS model with the spatial data

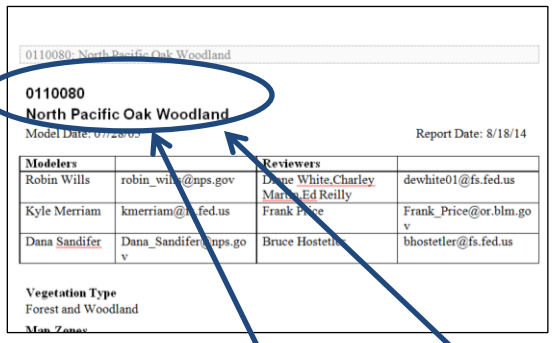
Background

Many users will want to use the BpS models in conjunction with their related spatial datasets, especially the BpS and Sclass (succession class) grids. This tutorial shows how to gather and link LANDFIRE's BpS related products.

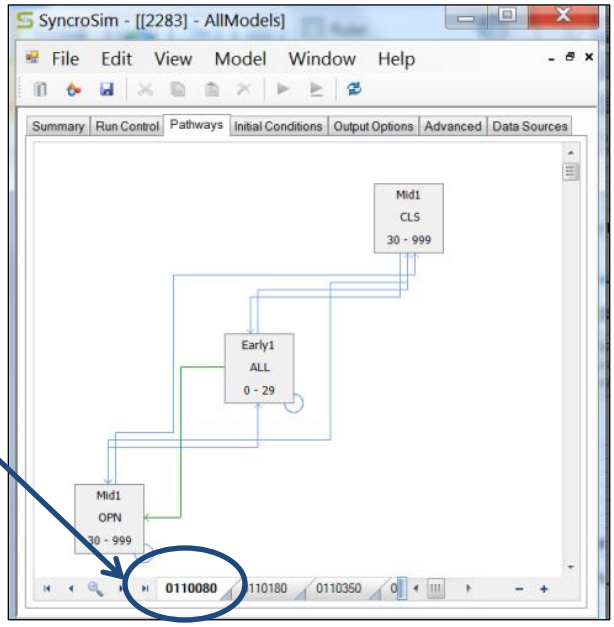
Linking the BpS model with the BpS grid

- Every BpS model is associated with a BpS on the BpS grid. The model and grid are linked through the BpS code.

BpS Description Document



BpS model in ST-Sim

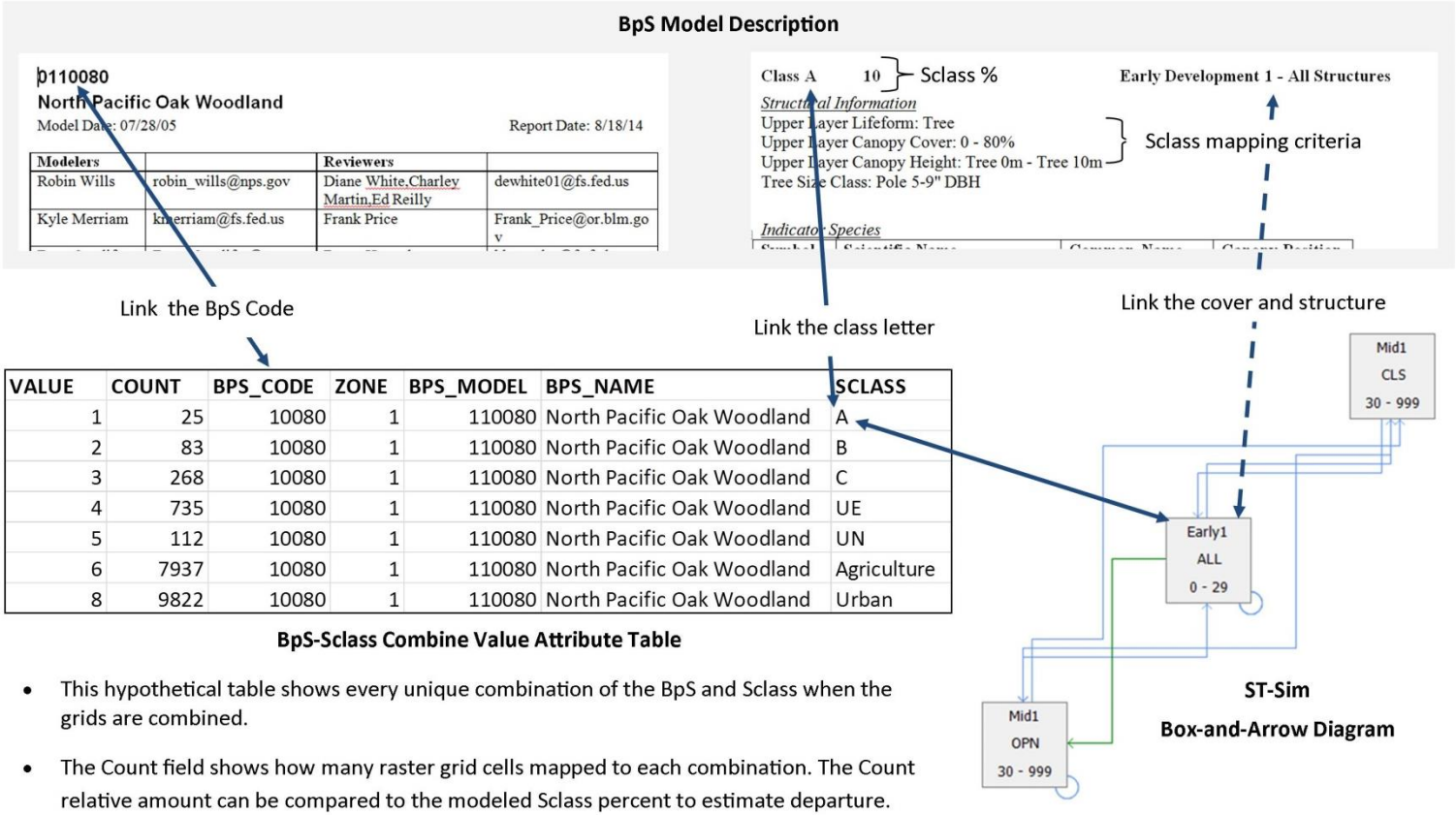


BpS grid attribute table

VALUE	BPS_CODE	ZONE	BPS_MODEL	BPS_NAME
717	10010	1	110010	Inter-Mountain Basins Sparsely Vegetated Systems
718	10030	1	110030	North Pacific Sparsely Vegetated Systems
719	10060	1	110060	Rocky Mountain Alpine/Montane Sparsely Vegetated Systems
720	10080	1	110080	North Pacific Oak Woodland
721	10180	1	110180	East Cascades Mesic Montane Mixed-Conifer Forest and Woodland
722	10350	1	110350	North Pacific Dry Douglas-fir(-Madrone) Forest and Woodland

Linking the BpS model to the Sclass grid

- Every class in a model is mapped in the Sclass or succession class grid.
- The Sclass grid maps the current location of each class based on its lifeform, cover and height as described in the BpS description document.
- The Sclass grid displays each class by its class letter. In order to use the Sclass grid it must be overlaid with the BpS grid using the Combine function in ArcMap.
- Once the Combine is complete, the Sclass information can be linked to the BpS model information as shown below.



VALUE	COUNT	BPS_CODE	ZONE	BPS_MODEL	BPS_NAME	SCLASS
1	25	10080	1	110080	North Pacific Oak Woodland	A
2	83	10080	1	110080	North Pacific Oak Woodland	B
3	268	10080	1	110080	North Pacific Oak Woodland	C
4	735	10080	1	110080	North Pacific Oak Woodland	UE
5	112	10080	1	110080	North Pacific Oak Woodland	UN
6	7937	10080	1	110080	North Pacific Oak Woodland	Agriculture
8	9822	10080	1	110080	North Pacific Oak Woodland	Urban

BpS-Sclass Combine Value Attribute Table

- This hypothetical table shows every unique combination of the BpS and Sclass when the grids are combined.
- The Count field shows how many raster grid cells mapped to each combination. The Count relative amount can be compared to the modeled Sclass percent to estimate departure.