Þ	🖒 🙇 🍸 Filter					[Q,
pf	$EVI_Jul_recode_100_10km $	dist_coast_update	$reg_quarte\hat{r}$	tmin_6to8_C_5km	precip_6to8_cm_5km	altitude_surv_100m
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
0	42.69334	0.2600656	1	22.2	5.6	0.2
		·		III.	·	

Raw data: pf = dependent variable; reg_quarter = categorical variable with two categories; other variables = continuous explanatory variables.

Data file discretised: continuous variables discretised using quantile method with two breaks.

$(\Rightarrow \Rightarrow $	↓ Filter					Q	
N= -V	EVI_Iul_recode_100_10km	dist_coast_update	tmin 6to8 C 5km	precip_6to8_cm_5km	altitude_surv_100m	pf ‡	reg_quarter
5643	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5644	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5645	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5646	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5647	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5648	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5649	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5650	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5651	[9.25,48]	(0.0334,1.89]	[6.9,21.5]	[3.2,14.3]	(0.4,26]	0	1
5652	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5653	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5654	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5655	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5656	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5657	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5658	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5659	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5660	(48,63]	[3.98e-05,0.0334]	(21.5,23.6]	(14.3,96.2]	[0,0.4]	0	2
5661	(18 63)	12 080.05 0 022/1	(21 5 22 6]	(1/1 2 06 2]	10.0.41	0	2

						(Q,	
ob44	EVI_Jul_recode_100_10km	dist_coast_updatê	tmin_6to8_C_5km [^]	precip_6to8_cm_5km	altitude_surv_100m	pÎ V	reg_quarter soutnern
5645	low	hi	low	low	hi	0	southern
5646	low	hi	low	low	hi	0	southern
5647	low	hi	low	low	hi	0	southern
5648	low	hi	low	low	hi	0	southern
5649	low	hi	low	low	hi	0	southern
5650	low	hi	low	low	hi	0	southern
5651	low	hi	low	low	hi	0	southern
5652	hi	low	hi	hi	low	0	northern
5653	hi	low	hi	hi	low	0	northern
5654	hi	low	hi	hi	low	0	northern
5655	hi	low	hi	hi	low	0	northern
5656	hi	low	hi	hi	low	0	northern
5657	hi	low	hi	hi	low	0	northern
5658	hi	low	hi	hi	low	0	northern

Data file with discretised states named

```
Conditional probability table for bn
```

```
Parameters of node pf (multinomial distribution)
Conditional probability table:
, , EVI_Jul_recode_100_10km = low, reg_quarter = southern
  dist_coast_update
pf
           low
                         hi
  0 0.981973435 0.995176849
 1 0.018026565 0.004823151
, , EVI_Jul_recode_100_10km = hi, reg_quarter = southern
  dist_coast_update
pf
            low
                         hi
  0 0.979052823 0.984174085
 1 0.020947177 0.015825915
, , EVI_Jul_recode_100_10km = low, reg_quarter = northern
  dist_coast_update
pf
           low
                         hi
  0 0.964241677 0.984509466
 1 0.035758323 0.015490534
, , EVI_Jul_recode_100_10km = hi, reg_quarter = northern
  dist_coast_update
pf
                         hi
            low
 0 0.939544103 0.929712460
  1 0.060455897 0.070287540
```

Lookup text file

bn_classes_enviro_jul_2018_all_variables - Notepad	
File Edit Format View Help	
<pre>EVI_Jul_recode_100_10km low, hi 9.25, 48, 63 dist_coast_update low, hi .0000398, 0.0334, 1.89 tmin_6to8_C_5km low, hi 6.9, 21.5, 23.6 precip_6to8_cm_5km low, hi 3.2, 14.3, 96.2 altitude_surv_100m low, hi 0, 0.4, 26 reg_quarter southern, northern 1, 2</pre>	

bn_pf <- bnspatial(network, 'pf', spatialData, lookup)</pre>

Error message

```
low
      hi
Discretized by intervals:
3.98e-05 <-> 0.0334 <-> 1.89
               _____
                          _____
"tmin_6to8_C_5km" points to:
-> tmin_6to8_C_5km
With states:
low
      hi
Discretized by intervals:
6.9 <-> 21.5 <-> 23.6
_____
"precip_6to8_cm_5km" points to:
-> precip_6to8_cm_5km
With states:
low
      hi
Discretized by intervals:
3.2 <-> 14.3 <-> 96.2
  _____
"altitude_surv_100m" points to:
-> altitude_surv_100m
With states:
low
      hi
Discretized by intervals:
0 <-> 0.4 <-> 26
_____
         _____
Error in linkNode(spatialData[names(lookup) == nm][[1]], network = network, :
 Integer values in categorical data do not match categories provided.
> -|
```