

# Included vs excluded Bishop Creek data (Phillips et al., 2009)

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In[2386]:= includedsnowcover = Map[{-# 0.001 &},
{0.99, 0.99, 0.99, 0.99, 0.97, 0.97, 0.97, 0.96, 0.93, 0.98, 0.92, 0.9, 0.92}];

excludedsnowcover =
Map[{-# 0.001 &}, {1, 1, 1, 0.95, 1, 0.92, 0.94, 0.94, 0.93, 0.96, 0.97, 0.97, 0.91, 0.82,
0.96, 0.96, 0.89, 0.98, 0.85, 0.96, 0.96, 0.92, 1, 1, 0.92, 0.9, 0.95, 0.99, 0.99, 0.99}];

includedhorizons = Map[{-# 0.001 &},
{0.92, 0.98, 0.98, 0.98, 0.96, 0.97, 0.92, 0.9, 0.93, 0.82, 0.8, 0.81}];

excludedhorizons = Map[{-# 0.001 &}, {0.99, 0.99, 0.99, 0.92, 0.96, 0.86, 0.89,
0.91, 0.91, 0.94, 0.96, 0.86, 0.83, 0.78, 0.91, 0.89, 0.87, 0.97, 0.78, 0.89,
0.9, 0.85, 0.96, 0.88, 0.83, 0.75, 0.97, 0.97, 0.95, 0.98512, 0.9832, 0.9892}];

includedelevation = Map[{-# 0.001 &},
{2451, 2414, 2481, 2384, 3481, 3487, 3487, 3636, 3597, 3414, 3560, 3510, 3510}];

excludedelevation = Map[{-# 0.001 &}, {2481, 2460, 2460, 2755, 2688, 2786, 2786,
3011, 3163, 3163, 3047, 3274, 3274, 3341, 3341, 3341, 3487, 3487, 3502, 3304,
3304, 3359, 3371, 3371, 3560, 3140, 3140, 3380, 3387, 3387}];
baboonlakeselevation = Map[{-# 0.001 &}, {3380, 3387, 3387}];

includedlonglat =
Transpose[
Reverse[
Transpose[
{{37.2548, -118.5712}, {37.2547, -118.5756}, {37.25345, -118.5714},
{37.2573, -118.5767}, {37.2694, -118.7125}, {37.2677, -118.7135}, {37.2677,
-118.7135}, {37.2692, -118.6954}, {37.2626, -118.6823}, {37.1387, -118.5757},
{37.1664, -118.6169}, {37.1567, -118.6144}, {37.1567, -118.6144}}]]];

excludedlonglat =
Transpose[
Reverse[
Transpose[
{{37.25379, -118.57197}, {37.251, -118.578}, {37.251, -118.578}, {37.25, -118.59},
{37.2116, -118.5996}, {37.2148, -118.6098}, {37.2148, -118.6098}, {37.17, -118.57},
{37.1877, -118.6201}, {37.1877, -118.6201}, {37.23, -118.61}, {37.2295, -118.6531},
{37.2295, -118.6531}, {37.235, -118.6666}, {37.235, -118.6666}, {37.235, -118.6666},
{37.2398, -118.6829}, {37.2392, -118.6832}, {37.15, -118.57}, {37.1759, -118.6326},
{37.1759, -118.6326}, {37.1681, -118.6207}, {37.1681, -118.6196},
{37.1681, -118.6192}, {37.1681, -118.6192}, {37.1515, -118.6194},
{37.1217, -118.4894}, {37.1217, -118.4894}, {37.1217, -118.4894},
{37.1683, -118.6201}, {37.1682, -118.6204}, {37.168, -118.6201}}]]];

baboonlkslonglat =
Transpose[
Reverse[
Transpose[
{{37.1683, -118.6201}, {37.1682, -118.6204}, {37.168, -118.6201}}]]];

includedti4ages = Map[{-# 0.001 &}, {15.6, 16.1, 15.4, 15.3, 14.7, 16.3, 14.8, 14.9, 15.4}];

excludedti4ages = Map[{-# 0.001 &}, {13.5, 21.2, 21.9, 13.8, 14, 15.1, 13.5,
13.9, 15.6, 13.2, 14.7, 16.3, 16.3, 11.2, 15.2, 15.3, 13.9, 14.6, 14.4}];

includedrpages = Map[{-# 0.001 &}, {13.3, 12.2, 12.2, 12.5}];

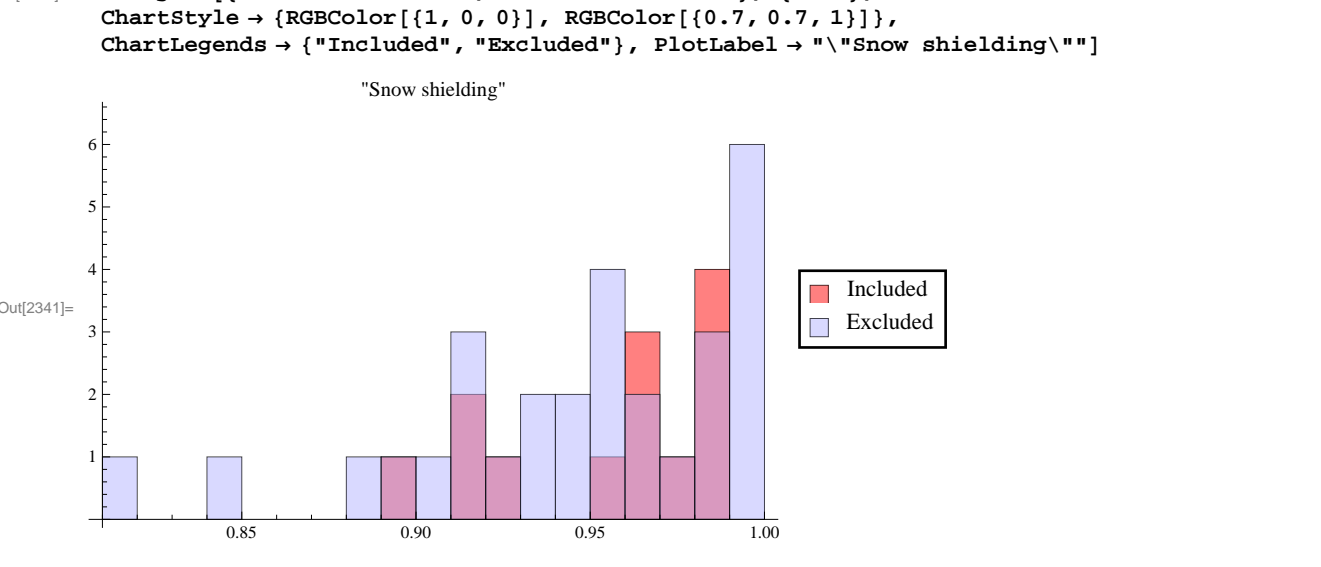
excludedrpages = Map[{-# 0.001 &}, {11.5, 13, 10.4, 9.8, 11.2, 19.2, 3.8, 14.6, 14, 12.9}];
```

The Phillips et al. (2009) data set contains 45 samples from Tioga - 4 and Recess Peak landforms.  
31 are listed as Tioga - 4 age.  
14 are listed as Recess Peak age.

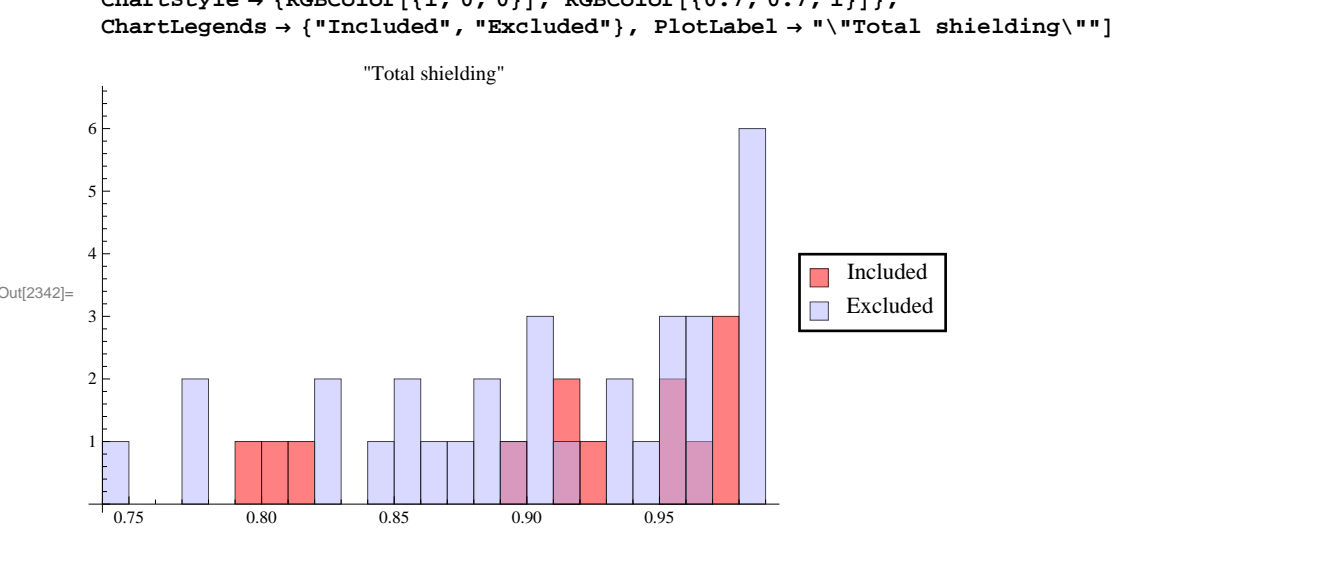
The proposal is to include 9 out of 31 Tioga-4 samples, and 4 out of 14 Recess Peak samples in the CRONUS primary Cl-36 calibration.

The figures below compare the distribution of included and excluded samples geographically, by snow-cover correction, by total shielding correction and by the ages published in Phillips et al. (2009).

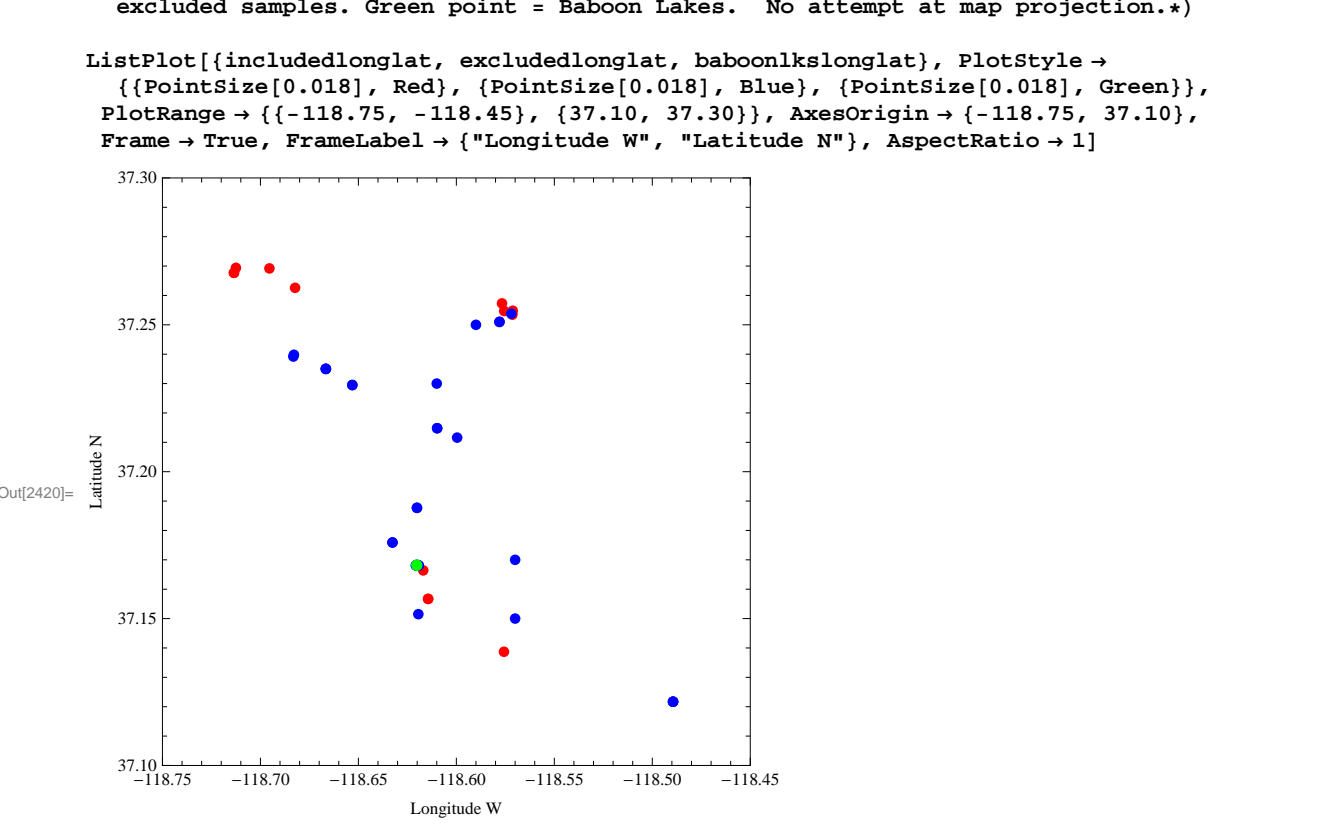
## Snow Shielding



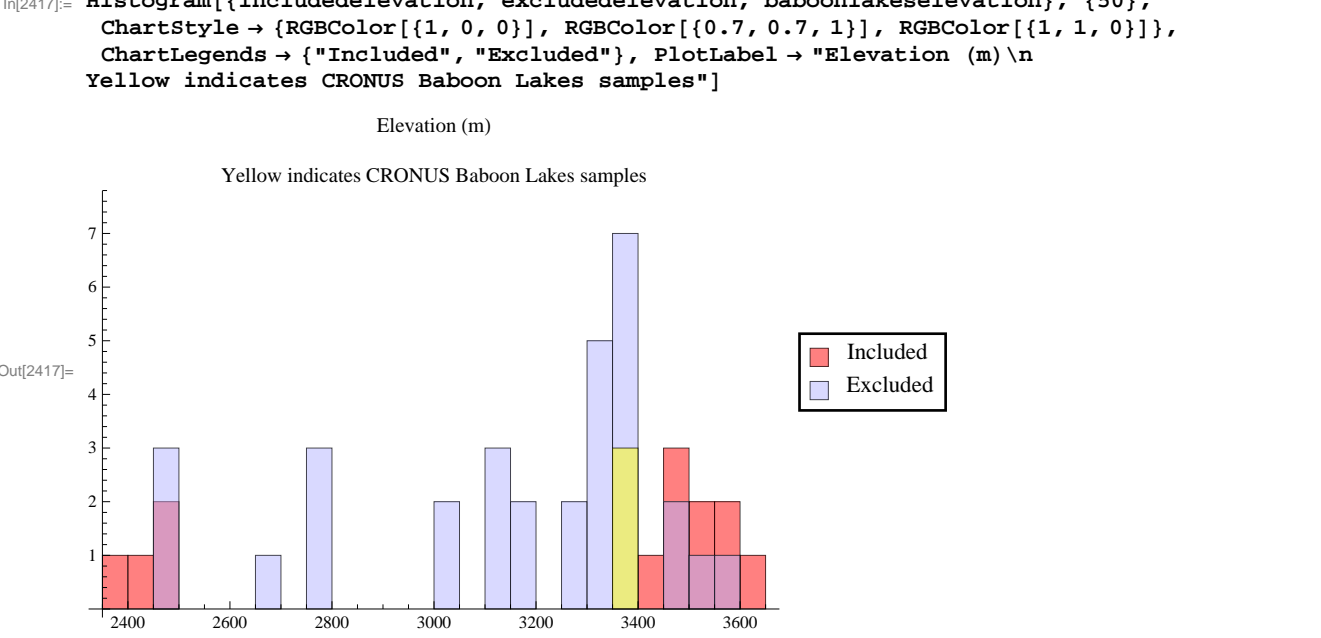
## Total Shielding



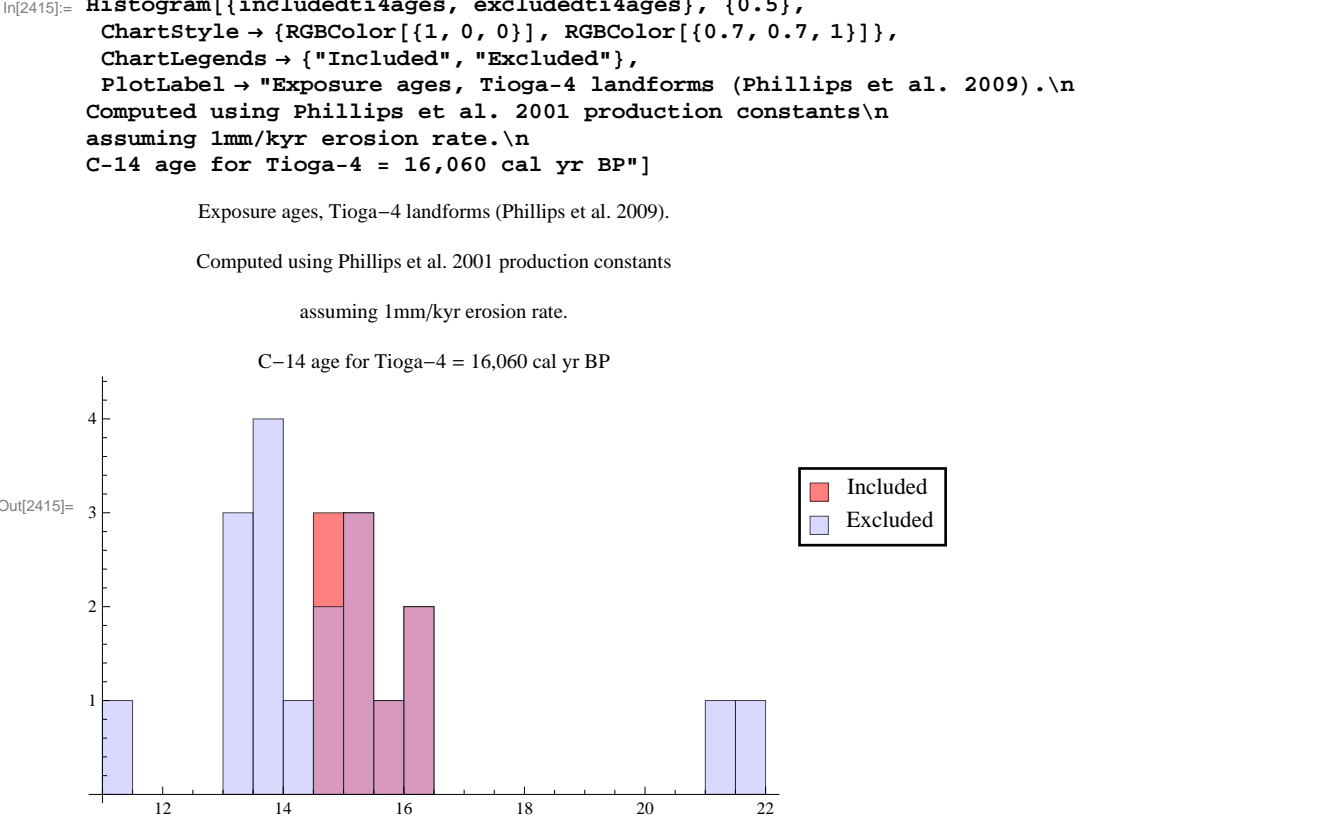
## Geographic position



## Elevation



## Exposure ages (Tioga 4 landforms)



## Exposure ages (Recess Peak landforms)

