

**Supplementary file S2. Single-entry stem volume model fittings**

| <b>Model D8</b>                             |         |            | <b>Model D10</b>                             |         |            |
|---|---------|------------|--|---------|------------|
| Root(v) = -0.23959+0.036738*d               |         |            | $v = 8.2091 * \text{Exp}(-70.331/d)$         |         |            |
| Estimation Statistics                       | Model   | Validation | Estimation Statistics                        | Model   | Validation |
| N   | 383     | 50         | N  | 383     | 50         |
| R <sup>2</sup>                              | 0.96986 | n/a        | R <sup>2</sup>                               | 0.96997 | n/a        |
| RMSE  | 0.05572 | 0.04984    | RMSE   | 0.07856 | 0.06765    |
| Bias  | 0.00057 | 0.00260    | Bias   | 0.00348 | 0.00447    |
| <p><b>D8 Model Fitting Residuals</b></p>    |         |            | <p><b>D10 Model Fitting Residuals</b></p>    |         |            |
| <p><b>D8 Model Validation Residuals</b></p> |         |            | <p><b>D10 Model Validation Residuals</b></p> |         |            |