

Supporting Information File S4. This document is an output file of the kuenm 1.1.9 package. It contains the parameters used in the models, the calibration results, and the best model selected for the species *Loncovilius cantharoides* sp. nov.

kuenm: calibration results

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Brief description of the model calibration and selection process

This is the final report of the evaluation of candidate models during calibration implemented in kuenm.

In all, 1054 candidate models, with parameters reflecting all combinations of 17 regularization multiplier settings, 31 feature class combinations, and 2 distinct sets of environmental variables, have been evaluated. Model performance was evaluated based on statistical significance (Partial ROC), omission rates (OR), and the Akaike information criterion corrected for small sample sizes (AICc).

Table 1. Parameters used to produce candidate models.

	Parameters
Regularization multipliers	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1, 2, 3, 4, 5, 6, 8, 10
Feature classes	l, q, p, t, h, lq, lp, lt, lh, qp, qt, qh, pt, ph, th, lqp, lqt, lqh, lpt, lph, lth, qpt, qph, qth, pth, lqpt, lqph, lqth, lpth, qpth, lqpth
Sets of predictors	Set1, Set2

All the results presented below can be found in the folder where outputs from model calibration were written.

Model calibration statistics

In the following table, information about how many models met the three selection criteria is presented.

Table 2. General statistics of models that met distinct criteria.

Criteria	Number_of_models
All candidate models	1054
Statistically significant models	938
Models meeting omission rate criteria	548
Models meeting AICc criteria	1
Statistically significant models meeting omission rate criteria	435
Statistically significant models meeting AICc criteria	1
Statistically significant models meeting omission rate and AICc criteria	1

Models selected according to user-defined criteria

The following table contains the models selected according to the user’s pre-defined criteria.

Note that if the selection criteria was “OR_AICc” (statistically significant models with omission rates below a predefined E , and among them those with lower AICc values), delta AICc values were recalculated only among models meeting the significance and omission rate criteria.

Table 3. Performance statistics for models selected based on the user’s pre-defined criteria.

Model	Mean_AUC_ratio	Partial_ROC	Omission_rate_at_5%	AICc	Delta_AICc	W_AICc	N_parameters
M_0.1_F_lq_Set2	1.876	0	0	163.314	0	0.46	4

Model performance plot

The figure below shows the position of the selected models in the distribution of all candidate models in terms of omission rates and AICc values.

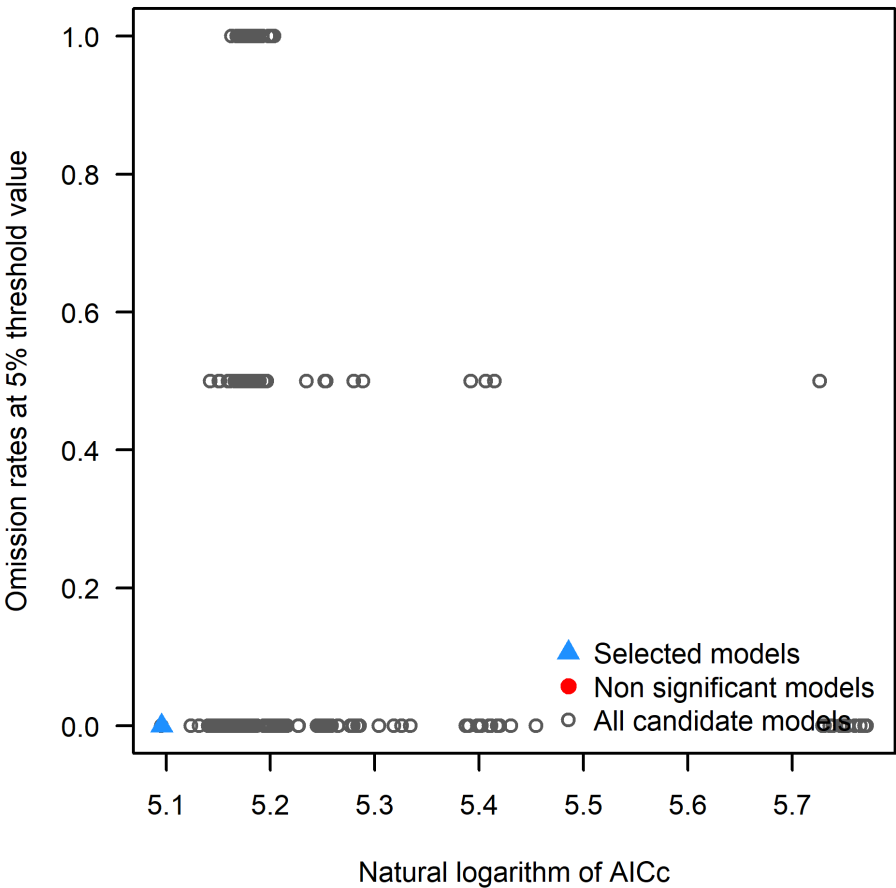


Figure 1. Distribution of all models, non-statistically significant models, and selected models in terms of AICc and omission rate

values.

Performance statistics for all models

Following the statistics of performance for all candidate models (a sample if more than 500 models) are presented. See file calibration_results.csv for an editable file with of results for all candidate models.

Table 4. Performance statistics for candidate models.

Model	Mean_AUC_ratio	Partial_ROC	Omission_rate_at_5%	AICc	Delta_AICc	W_AICc	N_parameters
M_0.1_F_l_Set1	1.694	0	0.0	191.643	28.329	0.000	5
M_0.1_F_l_Set2	1.703	0	0.0	173.701	10.387	0.000	2
M_0.1_F_q_Set1	1.769	0	0.0	228.304	64.990	0.000	7
M_0.1_F_q_Set2	1.676	0	0.0	172.819	9.505	0.000	2
M_0.1_F_p_Set1	1.857	0	0.0	NA	NA	NA	9
M_0.1_F_p_Set2	1.325	0	1.0	180.952	17.638	0.000	1
M_0.1_F_t_Set1	1.663	0	1.0	NA	NA	NA	56
M_0.1_F_t_Set2	1.538	0	1.0	NA	NA	NA	26
M_0.1_F_h_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_h_Set2	1.886	0	0.0	NA	NA	NA	12
M_0.1_F_lq_Set1	1.870	0	0.0	NA	NA	NA	9
M_0.1_F_lq_Set2	1.876	0	0.0	163.314	0.000	0.001	4
M_0.1_F_lp_Set1	1.864	0	0.0	NA	NA	NA	10
M_0.1_F_lp_Set2	1.764	0	0.0	175.792	12.478	0.000	3
M_0.1_F_lt_Set1	1.773	0	1.0	NA	NA	NA	57
M_0.1_F_lt_Set2	1.820	0	1.0	NA	NA	NA	26
M_0.1_F_lh_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_lh_Set2	1.875	0	0.0	NA	NA	NA	12
M_0.1_F_qp_Set1	1.912	0	0.0	NA	NA	NA	11
M_0.1_F_qp_Set2	1.682	0	0.0	171.359	8.045	0.000	2
M_0.1_F_qt_Set1	1.773	0	1.0	NA	NA	NA	57
M_0.1_F_qt_Set2	1.840	0	1.0	NA	NA	NA	26
M_0.1_F_qh_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_qh_Set2	1.878	0	0.0	NA	NA	NA	12
M_0.1_F_pt_Set1	1.773	0	1.0	NA	NA	NA	58

M_0.1_F_pt_Set2	1.696	0	1.0	NA	NA	NA	27
M_0.1_F_ph_Set1	1.964	0	1.0	NA	NA	NA	65
M_0.1_F_ph_Set2	1.880	0	0.0	NA	NA	NA	12
M_0.1_F_th_Set1	1.751	0	1.0	NA	NA	NA	51
M_0.1_F_th_Set2	1.861	0	1.0	NA	NA	NA	30
M_0.1_F_lqp_Set1	1.901	0	0.0	NA	NA	NA	11
M_0.1_F_lqp_Set2	1.861	0	0.0	167.985	4.671	0.000	4
M_0.1_F_lqt_Set1	1.773	0	1.0	NA	NA	NA	57
M_0.1_F_lqt_Set2	1.847	0	1.0	NA	NA	NA	26
M_0.1_F_lqh_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_lqh_Set2	1.872	0	0.0	NA	NA	NA	12
M_0.1_F_lpt_Set1	1.773	0	1.0	NA	NA	NA	58
M_0.1_F_lpt_Set2	1.801	0	1.0	NA	NA	NA	27
M_0.1_F_lph_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_lph_Set2	1.880	0	0.0	NA	NA	NA	12
M_0.1_F_lth_Set1	1.748	0	1.0	NA	NA	NA	51
M_0.1_F_lth_Set2	1.859	0	1.0	NA	NA	NA	30
M_0.1_F_qpt_Set1	1.774	0	1.0	NA	NA	NA	57
M_0.1_F_qpt_Set2	1.832	0	1.0	NA	NA	NA	27
M_0.1_F_qph_Set1	1.963	0	1.0	NA	NA	NA	65
M_0.1_F_qph_Set2	1.881	0	0.0	NA	NA	NA	12
M_0.1_F_qth_Set1	1.750	0	1.0	NA	NA	NA	51
M_0.1_F_qth_Set2	1.860	0	1.0	NA	NA	NA	30
M_0.1_F_pth_Set1	1.750	0	1.0	NA	NA	NA	51
M_0.1_F_pth_Set2	1.860	0	1.0	NA	NA	NA	30
M_0.1_F_lqpt_Set1	1.774	0	1.0	NA	NA	NA	57
M_0.1_F_lqpt_Set2	1.835	0	1.0	NA	NA	NA	27
M_0.1_F_lqph_Set1	1.964	0	1.0	NA	NA	NA	65
M_0.1_F_lqph_Set2	1.878	0	0.0	NA	NA	NA	12
M_0.1_F_lqth_Set1	1.736	0	1.0	NA	NA	NA	51
M_0.1_F_lqth_Set2	1.860	0	1.0	NA	NA	NA	30
M_0.1_F_lpth_Set1	1.742	0	1.0	NA	NA	NA	51
M_0.1_F_lpth_Set2	1.860	0	1.0	NA	NA	NA	30

M_0.1_F_qpth_Set1	1.743	0	1.0	NA	NA	NA	51
M_0.1_F_qpth_Set2	1.860	0	1.0	NA	NA	NA	30
M_0.1_F_lqpth_Set1	1.752	0	1.0	NA	NA	NA	51
M_0.1_F_lqpth_Set2	1.860	0	1.0	NA	NA	NA	30
M_0.2_F_l_Set1	1.713	0	0.0	192.126	28.812	0.000	5
M_0.2_F_l_Set2	1.701	0	0.0	173.723	10.409	0.000	2
M_0.2_F_q_Set1	1.733	0	0.0	201.103	37.789	0.000	6
M_0.2_F_q_Set2	1.674	0	0.0	172.834	9.520	0.000	2
M_0.2_F_p_Set1	1.739	0	0.0	319.158	155.844	0.000	8
M_0.2_F_p_Set2	1.324	0	1.0	180.965	17.651	0.000	1
M_0.2_F_t_Set1	1.479	0	1.0	NA	NA	NA	41
M_0.2_F_t_Set2	1.557	0	0.5	NA	NA	NA	17
M_0.2_F_h_Set1	1.952	0	0.5	NA	NA	NA	49
M_0.2_F_h_Set2	1.881	0	0.0	NA	NA	NA	9
M_0.2_F_lq_Set1	1.820	0	0.0	NA	NA	NA	9
M_0.2_F_lq_Set2	1.862	0	0.0	167.985	4.671	0.000	4
M_0.2_F_lp_Set1	1.785	0	0.0	317.496	154.182	0.000	8
M_0.2_F_lp_Set2	1.729	0	0.0	176.311	12.997	0.000	3
M_0.2_F_lt_Set1	1.611	0	1.0	NA	NA	NA	42
M_0.2_F_lt_Set2	1.778	0	0.5	NA	NA	NA	20
M_0.2_F_lh_Set1	1.954	0	0.5	NA	NA	NA	49
M_0.2_F_lh_Set2	1.884	0	0.0	NA	NA	NA	9
M_0.2_F_qp_Set1	1.789	0	0.0	315.273	151.959	0.000	8
M_0.2_F_qp_Set2	1.663	0	0.0	171.544	8.230	0.000	2
M_0.2_F_qt_Set1	1.660	0	1.0	NA	NA	NA	44
M_0.2_F_qt_Set2	1.849	0	0.5	NA	NA	NA	19
M_0.2_F_qh_Set1	1.953	0	0.5	NA	NA	NA	49
M_0.2_F_qh_Set2	1.883	0	0.0	NA	NA	NA	9
M_0.2_F_pt_Set1	1.629	0	1.0	NA	NA	NA	42
M_0.2_F_pt_Set2	1.641	0	0.5	NA	NA	NA	18
M_0.2_F_ph_Set1	1.954	0	0.5	NA	NA	NA	49
M_0.2_F_ph_Set2	1.881	0	0.0	NA	NA	NA	9
M_0.2_F_th_Set1	1.824	0	1.0	NA	NA	NA	49

M_0.2_F_th_Set2	1.868	0	0.5	NA	NA	NA	22
M_0.2_F_lqp_Set1	1.801	0	0.0	313.966	150.652	0.000	8
M_0.2_F_lqp_Set2	1.805	0	0.0	169.306	5.992	0.000	3
M_0.2_F_lqt_Set1	1.653	0	1.0	NA	NA	NA	44
M_0.2_F_lqt_Set2	1.820	0	0.5	NA	NA	NA	20
M_0.2_F_lqh_Set1	1.951	0	0.5	NA	NA	NA	49
M_0.2_F_lqh_Set2	1.880	0	0.0	NA	NA	NA	9
M_0.2_F_lpt_Set1	1.635	0	1.0	NA	NA	NA	42
M_0.2_F_lpt_Set2	1.786	0	0.5	NA	NA	NA	20
M_0.2_F_lph_Set1	1.950	0	0.5	NA	NA	NA	49
M_0.2_F_lph_Set2	1.881	0	0.0	NA	NA	NA	9
M_0.2_F_lth_Set1	1.826	0	1.0	NA	NA	NA	49
M_0.2_F_lth_Set2	1.866	0	0.5	NA	NA	NA	22
M_0.2_F_qpt_Set1	1.639	0	1.0	NA	NA	NA	43
M_0.2_F_qpt_Set2	1.851	0	0.5	NA	NA	NA	19
M_0.2_F_qph_Set1	1.953	0	0.5	NA	NA	NA	49
M_0.2_F_qph_Set2	1.888	0	0.0	NA	NA	NA	9
M_0.2_F_qth_Set1	1.835	0	1.0	NA	NA	NA	49
M_0.2_F_qth_Set2	1.869	0	0.5	NA	NA	NA	22
M_0.2_F_pth_Set1	1.832	0	1.0	NA	NA	NA	49
M_0.2_F_pth_Set2	1.869	0	0.5	NA	NA	NA	22
M_0.2_F_lqpt_Set1	1.629	0	1.0	NA	NA	NA	43
M_0.2_F_lqpt_Set2	1.833	0	0.5	NA	NA	NA	20
M_0.2_F_lqph_Set1	1.952	0	0.5	NA	NA	NA	49
M_0.2_F_lqph_Set2	1.883	0	0.0	NA	NA	NA	9
M_0.2_F_lqth_Set1	1.829	0	1.0	NA	NA	NA	49
M_0.2_F_lqth_Set2	1.869	0	0.5	NA	NA	NA	22
M_0.2_F_lpth_Set1	1.825	0	1.0	NA	NA	NA	49
M_0.2_F_lpth_Set2	1.868	0	0.5	NA	NA	NA	22
M_0.2_F_qpth_Set1	1.828	0	1.0	NA	NA	NA	49
M_0.2_F_qpth_Set2	1.871	0	0.5	NA	NA	NA	22
M_0.2_F_lqpth_Set1	1.828	0	1.0	NA	NA	NA	49
M_0.2_F_lqpth_Set2	1.869	0	0.5	NA	NA	NA	22

M_0.3_F_l_Set1	1.709	0	0.0	207.306	43.992	0.000	6
M_0.3_F_l_Set2	1.696	0	0.0	173.758	10.444	0.000	2
M_0.3_F_q_Set1	1.700	0	0.0	204.076	40.762	0.000	6
M_0.3_F_q_Set2	1.667	0	0.0	172.858	9.544	0.000	2
M_0.3_F_p_Set1	1.724	0	0.0	189.601	26.287	0.000	5
M_0.3_F_p_Set2	1.325	0	1.0	180.986	17.672	0.000	1
M_0.3_F_t_Set1	1.594	0	1.0	NA	NA	NA	32
M_0.3_F_t_Set2	1.607	0	0.5	NA	NA	NA	11
M_0.3_F_h_Set1	1.948	0	0.5	NA	NA	NA	44
M_0.3_F_h_Set2	1.882	0	0.0	NA	NA	NA	10
M_0.3_F_lq_Set1	1.808	0	0.0	223.825	60.511	0.000	7
M_0.3_F_lq_Set2	1.832	0	0.0	172.273	8.959	0.000	4
M_0.3_F_lp_Set1	1.727	0	0.0	233.884	70.570	0.000	7
M_0.3_F_lp_Set2	1.688	0	0.0	178.122	14.808	0.000	3
M_0.3_F_lt_Set1	1.694	0	1.0	NA	NA	NA	30
M_0.3_F_lt_Set2	1.791	0	0.0	NA	NA	NA	15
M_0.3_F_lh_Set1	1.949	0	0.5	NA	NA	NA	44
M_0.3_F_lh_Set2	1.881	0	0.0	NA	NA	NA	10
M_0.3_F_qp_Set1	1.761	0	0.0	321.068	157.754	0.000	8
M_0.3_F_qp_Set2	1.643	0	0.0	171.821	8.507	0.000	2
M_0.3_F_qt_Set1	1.740	0	1.0	NA	NA	NA	32
M_0.3_F_qt_Set2	1.853	0	0.0	NA	NA	NA	14
M_0.3_F_qh_Set1	1.950	0	0.5	NA	NA	NA	44
M_0.3_F_qh_Set2	1.880	0	0.0	NA	NA	NA	10
M_0.3_F_pt_Set1	1.695	0	1.0	NA	NA	NA	32
M_0.3_F_pt_Set2	1.581	0	0.5	NA	NA	NA	11
M_0.3_F_ph_Set1	1.950	0	0.5	NA	NA	NA	44
M_0.3_F_ph_Set2	1.877	0	0.0	NA	NA	NA	10
M_0.3_F_th_Set1	1.841	0	1.0	NA	NA	NA	36
M_0.3_F_th_Set2	1.877	0	0.0	NA	NA	NA	15
M_0.3_F_lqp_Set1	1.760	0	0.0	320.380	157.066	0.000	8
M_0.3_F_lqp_Set2	1.717	0	0.0	172.770	9.456	0.000	3
M_0.3_F_lqt_Set1	1.732	0	1.0	NA	NA	NA	32

M_0.3_F_lqt_Set2	1.827	0	0.0	NA	NA	NA	15
M_0.3_F_lqh_Set1	1.950	0	0.5	NA	NA	NA	44
M_0.3_F_lqh_Set2	1.881	0	0.0	NA	NA	NA	10
M_0.3_F_lpt_Set1	1.706	0	1.0	NA	NA	NA	32
M_0.3_F_lpt_Set2	1.785	0	0.0	NA	NA	NA	15
M_0.3_F_lph_Set1	1.949	0	0.5	NA	NA	NA	44
M_0.3_F_lph_Set2	1.884	0	0.0	NA	NA	NA	10
M_0.3_F_lth_Set1	1.840	0	1.0	NA	NA	NA	36
M_0.3_F_lth_Set2	1.880	0	0.0	NA	NA	NA	15
M_0.3_F_qpt_Set1	1.711	0	1.0	NA	NA	NA	34
M_0.3_F_qpt_Set2	1.842	0	0.0	NA	NA	NA	14
M_0.3_F_qph_Set1	1.948	0	0.5	NA	NA	NA	44
M_0.3_F_qph_Set2	1.882	0	0.0	NA	NA	NA	10
M_0.3_F_qth_Set1	1.837	0	1.0	NA	NA	NA	36
M_0.3_F_qth_Set2	1.873	0	0.0	NA	NA	NA	15
M_0.3_F_pth_Set1	1.847	0	1.0	NA	NA	NA	36
M_0.3_F_pth_Set2	1.877	0	0.0	NA	NA	NA	15
M_0.3_F_lqpt_Set1	1.704	0	1.0	NA	NA	NA	34
M_0.3_F_lqpt_Set2	1.826	0	0.0	NA	NA	NA	15
M_0.3_F_lqph_Set1	1.948	0	0.5	NA	NA	NA	44
M_0.3_F_lqph_Set2	1.884	0	0.0	NA	NA	NA	10
M_0.3_F_lqth_Set1	1.838	0	1.0	NA	NA	NA	36
M_0.3_F_lqth_Set2	1.878	0	0.0	NA	NA	NA	15
M_0.3_F_lpth_Set1	1.827	0	1.0	NA	NA	NA	36
M_0.3_F_lpth_Set2	1.873	0	0.0	NA	NA	NA	15
M_0.3_F_qpth_Set1	1.843	0	1.0	NA	NA	NA	36
M_0.3_F_qpth_Set2	1.881	0	0.0	NA	NA	NA	15
M_0.3_F_lqpth_Set1	1.838	0	1.0	NA	NA	NA	36
M_0.3_F_lqpth_Set2	1.884	0	0.0	NA	NA	NA	15
M_0.4_F_l_Set1	1.703	0	0.0	183.474	20.160	0.000	4
M_0.4_F_l_Set2	1.692	0	0.0	173.807	10.493	0.000	2
M_0.4_F_q_Set1	1.695	0	0.0	190.437	27.123	0.000	5
M_0.4_F_q_Set2	1.663	0	0.0	172.890	9.577	0.000	2

M_0.4_F_p_Set1	1.721	0	0.0	181.192	17.878	0.000	4
M_0.4_F_p_Set2	1.324	0	1.0	181.016	17.702	0.000	1
M_0.4_F_t_Set1	1.634	0	1.0	NA	NA	NA	26
M_0.4_F_t_Set2	1.537	0	0.5	306.852	143.538	0.000	8
M_0.4_F_h_Set1	1.926	0	0.0	NA	NA	NA	26
M_0.4_F_h_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.4_F_lq_Set1	1.803	0	0.0	197.047	33.733	0.000	6
M_0.4_F_lq_Set2	1.804	0	0.0	169.306	5.992	0.000	3
M_0.4_F_lp_Set1	1.707	0	0.0	190.200	26.886	0.000	5
M_0.4_F_lp_Set2	1.683	0	0.0	173.973	10.659	0.000	2
M_0.4_F_lt_Set1	1.757	0	1.0	NA	NA	NA	27
M_0.4_F_lt_Set2	1.815	0	0.0	NA	NA	NA	12
M_0.4_F_lh_Set1	1.927	0	0.0	NA	NA	NA	26
M_0.4_F_lh_Set2	1.873	0	0.0	NA	NA	NA	10
M_0.4_F_qp_Set1	1.760	0	0.0	180.200	16.886	0.000	4
M_0.4_F_qp_Set2	1.639	0	0.0	177.381	14.067	0.000	3
M_0.4_F_qt_Set1	1.776	0	1.0	NA	NA	NA	29
M_0.4_F_qt_Set2	1.875	0	0.0	NA	NA	NA	11
M_0.4_F_qh_Set1	1.927	0	0.0	NA	NA	NA	30
M_0.4_F_qh_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.4_F_pt_Set1	1.751	0	1.0	NA	NA	NA	27
M_0.4_F_pt_Set2	1.585	0	0.5	306.852	143.538	0.000	8
M_0.4_F_ph_Set1	1.927	0	0.0	NA	NA	NA	26
M_0.4_F_ph_Set2	1.872	0	0.0	NA	NA	NA	10
M_0.4_F_th_Set1	1.869	0	1.0	NA	NA	NA	30
M_0.4_F_th_Set2	1.845	0	0.0	NA	NA	NA	10
M_0.4_F_lqp_Set1	1.748	0	0.0	180.108	16.794	0.000	4
M_0.4_F_lqp_Set2	1.710	0	0.0	171.258	7.944	0.000	2
M_0.4_F_lqt_Set1	1.787	0	1.0	NA	NA	NA	29
M_0.4_F_lqt_Set2	1.842	0	0.0	NA	NA	NA	12
M_0.4_F_lqh_Set1	1.929	0	0.0	NA	NA	NA	30
M_0.4_F_lqh_Set2	1.877	0	0.0	NA	NA	NA	10
M_0.4_F_lpt_Set1	1.761	0	1.0	NA	NA	NA	27

M_0.4_F_lpt_Set2	1.781	0	0.5	NA	NA	NA	12
M_0.4_F_lph_Set1	1.926	0	0.0	NA	NA	NA	33
M_0.4_F_lph_Set2	1.873	0	0.0	NA	NA	NA	10
M_0.4_F_lth_Set1	1.865	0	1.0	NA	NA	NA	30
M_0.4_F_lth_Set2	1.856	0	0.0	NA	NA	NA	10
M_0.4_F_qpt_Set1	1.778	0	1.0	NA	NA	NA	26
M_0.4_F_qpt_Set2	1.855	0	0.0	NA	NA	NA	11
M_0.4_F_qph_Set1	1.928	0	0.0	NA	NA	NA	26
M_0.4_F_qph_Set2	1.873	0	0.0	NA	NA	NA	10
M_0.4_F_qth_Set1	1.869	0	1.0	NA	NA	NA	31
M_0.4_F_qth_Set2	1.855	0	0.0	NA	NA	NA	10
M_0.4_F_pth_Set1	1.866	0	1.0	NA	NA	NA	30
M_0.4_F_pth_Set2	1.855	0	0.0	NA	NA	NA	10
M_0.4_F_lqpt_Set1	1.779	0	1.0	NA	NA	NA	26
M_0.4_F_lqpt_Set2	1.858	0	0.0	NA	NA	NA	12
M_0.4_F_lqph_Set1	1.926	0	0.0	NA	NA	NA	26
M_0.4_F_lqph_Set2	1.876	0	0.0	NA	NA	NA	10
M_0.4_F_lqth_Set1	1.862	0	1.0	NA	NA	NA	31
M_0.4_F_lqth_Set2	1.859	0	0.0	NA	NA	NA	10
M_0.4_F_lpth_Set1	1.868	0	1.0	NA	NA	NA	30
M_0.4_F_lpth_Set2	1.852	0	0.0	NA	NA	NA	10
M_0.4_F_qpth_Set1	1.869	0	1.0	NA	NA	NA	30
M_0.4_F_qpth_Set2	1.857	0	0.0	NA	NA	NA	10
M_0.4_F_lqpth_Set1	1.873	0	1.0	NA	NA	NA	30
M_0.4_F_lqpth_Set2	1.854	0	0.0	NA	NA	NA	10
M_0.5_F_l_Set1	1.695	0	0.0	183.671	20.357	0.000	4
M_0.5_F_l_Set2	1.690	0	0.0	173.868	10.554	0.000	2
M_0.5_F_q_Set1	1.688	0	0.0	190.651	27.337	0.000	5
M_0.5_F_q_Set2	1.656	0	0.0	172.932	9.618	0.000	2
M_0.5_F_p_Set1	1.701	0	0.0	190.562	27.248	0.000	5
M_0.5_F_p_Set2	1.324	0	1.0	181.054	17.740	0.000	1
M_0.5_F_t_Set1	1.646	0	1.0	NA	NA	NA	21
M_0.5_F_t_Set2	1.191	0	0.5	191.013	27.699	0.000	6

M_0.5_F_h_Set1	1.932	0	0.0	NA	NA	NA	16
M_0.5_F_h_Set2	1.865	0	0.0	NA	NA	NA	9
M_0.5_F_lq_Set1	1.786	0	0.0	184.189	20.875	0.000	5
M_0.5_F_lq_Set2	1.770	0	0.0	171.131	7.817	0.000	3
M_0.5_F_lp_Set1	1.684	0	0.0	205.548	42.234	0.000	6
M_0.5_F_lp_Set2	1.673	0	0.0	174.121	10.807	0.000	2
M_0.5_F_lt_Set1	1.756	0	1.0	NA	NA	NA	21
M_0.5_F_lt_Set2	1.810	0	0.0	NA	NA	NA	9
M_0.5_F_lh_Set1	1.930	0	0.0	NA	NA	NA	16
M_0.5_F_lh_Set2	1.866	0	0.0	NA	NA	NA	9
M_0.5_F_qp_Set1	1.739	0	0.0	180.524	17.211	0.000	4
M_0.5_F_qp_Set2	1.629	0	0.0	173.257	9.943	0.000	2
M_0.5_F_qt_Set1	1.794	0	1.0	NA	NA	NA	23
M_0.5_F_qt_Set2	1.874	0	0.0	308.367	145.053	0.000	8
M_0.5_F_qh_Set1	1.934	0	0.0	NA	NA	NA	19
M_0.5_F_qh_Set2	1.867	0	0.0	NA	NA	NA	9
M_0.5_F_pt_Set1	1.746	0	1.0	NA	NA	NA	21
M_0.5_F_pt_Set2	1.191	0	0.5	191.013	27.699	0.000	6
M_0.5_F_ph_Set1	1.930	0	0.0	NA	NA	NA	16
M_0.5_F_ph_Set2	1.872	0	0.0	NA	NA	NA	9
M_0.5_F_th_Set1	1.868	0	1.0	NA	NA	NA	23
M_0.5_F_th_Set2	1.882	0	0.0	NA	NA	NA	9
M_0.5_F_lqp_Set1	1.727	0	0.0	180.428	17.114	0.000	4
M_0.5_F_lqp_Set2	1.699	0	0.0	171.414	8.100	0.000	2
M_0.5_F_lqt_Set1	1.807	0	1.0	NA	NA	NA	25
M_0.5_F_lqt_Set2	1.855	0	0.0	NA	NA	NA	9
M_0.5_F_lqh_Set1	1.932	0	0.0	NA	NA	NA	19
M_0.5_F_lqh_Set2	1.864	0	0.0	NA	NA	NA	9
M_0.5_F_lpt_Set1	1.739	0	1.0	NA	NA	NA	21
M_0.5_F_lpt_Set2	1.785	0	0.5	219.629	56.315	0.000	7
M_0.5_F_lph_Set1	1.933	0	0.0	NA	NA	NA	16
M_0.5_F_lph_Set2	1.866	0	0.0	NA	NA	NA	9
M_0.5_F_lth_Set1	1.871	0	1.0	NA	NA	NA	23

M_0.5_F_lth_Set2	1.879	0	0.0	NA	NA	NA	9
M_0.5_F_qpt_Set1	1.768	0	1.0	NA	NA	NA	21
M_0.5_F_qpt_Set2	1.862	0	0.0	218.651	55.337	0.000	7
M_0.5_F_qph_Set1	1.931	0	0.0	NA	NA	NA	16
M_0.5_F_qph_Set2	1.866	0	0.0	NA	NA	NA	9
M_0.5_F_qth_Set1	1.867	0	1.0	NA	NA	NA	23
M_0.5_F_qth_Set2	1.873	0	0.0	NA	NA	NA	9
M_0.5_F_pth_Set1	1.873	0	1.0	NA	NA	NA	23
M_0.5_F_pth_Set2	1.879	0	0.0	NA	NA	NA	9
M_0.5_F_lqpt_Set1	1.767	0	1.0	NA	NA	NA	21
M_0.5_F_lqpt_Set2	1.862	0	0.0	218.651	55.337	0.000	7
M_0.5_F_lqph_Set1	1.930	0	0.0	NA	NA	NA	16
M_0.5_F_lqph_Set2	1.868	0	0.0	NA	NA	NA	9
M_0.5_F_lqth_Set1	1.866	0	1.0	NA	NA	NA	23
M_0.5_F_lqth_Set2	1.881	0	0.0	NA	NA	NA	9
M_0.5_F_lpth_Set1	1.870	0	1.0	NA	NA	NA	23
M_0.5_F_lpth_Set2	1.881	0	0.0	NA	NA	NA	9
M_0.5_F_qpth_Set1	1.867	0	1.0	NA	NA	NA	23
M_0.5_F_qpth_Set2	1.878	0	0.0	NA	NA	NA	9
M_0.5_F_lqpth_Set1	1.872	0	1.0	NA	NA	NA	23
M_0.5_F_lqpth_Set2	1.878	0	0.0	NA	NA	NA	9
M_0.6_F_l_Set1	1.681	0	0.0	177.903	14.589	0.000	3
M_0.6_F_l_Set2	1.686	0	0.0	173.941	10.627	0.000	2
M_0.6_F_q_Set1	1.681	0	0.0	190.907	27.593	0.000	5
M_0.6_F_q_Set2	1.652	0	0.0	172.982	9.668	0.000	2
M_0.6_F_p_Set1	1.684	0	0.0	181.883	18.569	0.000	4
M_0.6_F_p_Set2	1.325	0	1.0	181.100	17.786	0.000	1
M_0.6_F_t_Set1	1.646	0	1.0	NA	NA	NA	16
M_0.6_F_t_Set2	1.191	0	0.5	177.382	14.068	0.000	5
M_0.6_F_h_Set1	1.935	0	0.0	NA	NA	NA	15
M_0.6_F_h_Set2	1.848	0	0.0	NA	NA	NA	10
M_0.6_F_lq_Set1	1.757	0	0.0	186.235	22.921	0.000	5
M_0.6_F_lq_Set2	1.720	0	0.0	172.770	9.456	0.000	3

M_0.6_F_lp_Set1	1.664	0	0.0	181.933	18.619	0.000	4
M_0.6_F_lp_Set2	1.663	0	0.0	174.295	10.981	0.000	2
M_0.6_F_lt_Set1	1.763	0	1.0	NA	NA	NA	15
M_0.6_F_lt_Set2	1.809	0	0.0	310.941	147.627	0.000	8
M_0.6_F_lh_Set1	1.934	0	0.0	NA	NA	NA	15
M_0.6_F_lh_Set2	1.848	0	0.0	NA	NA	NA	10
M_0.6_F_qp_Set1	1.711	0	0.0	180.910	17.596	0.000	4
M_0.6_F_qp_Set2	1.618	0	0.0	173.436	10.122	0.000	2
M_0.6_F_qt_Set1	1.805	0	1.0	NA	NA	NA	17
M_0.6_F_qt_Set2	1.857	0	0.0	189.977	26.663	0.000	6
M_0.6_F_qh_Set1	1.931	0	0.0	NA	NA	NA	16
M_0.6_F_qh_Set2	1.852	0	0.0	NA	NA	NA	10
M_0.6_F_pt_Set1	1.718	0	0.5	NA	NA	NA	15
M_0.6_F_pt_Set2	1.191	0	0.5	177.382	14.068	0.000	5
M_0.6_F_ph_Set1	1.935	0	0.0	NA	NA	NA	15
M_0.6_F_ph_Set2	1.848	0	0.0	NA	NA	NA	10
M_0.6_F_th_Set1	1.875	0	0.5	NA	NA	NA	19
M_0.6_F_th_Set2	1.873	0	0.0	NA	NA	NA	10
M_0.6_F_lqp_Set1	1.705	0	0.0	174.813	11.499	0.000	3
M_0.6_F_lqp_Set2	1.686	0	0.0	171.598	8.284	0.000	2
M_0.6_F_lqt_Set1	1.808	0	1.0	NA	NA	NA	18
M_0.6_F_lqt_Set2	1.856	0	0.0	NA	NA	NA	9
M_0.6_F_lqh_Set1	1.928	0	0.0	NA	NA	NA	16
M_0.6_F_lqh_Set2	1.848	0	0.0	NA	NA	NA	10
M_0.6_F_lpt_Set1	1.717	0	0.5	NA	NA	NA	15
M_0.6_F_lpt_Set2	1.777	0	0.5	191.276	27.962	0.000	6
M_0.6_F_lph_Set1	1.935	0	0.0	NA	NA	NA	15
M_0.6_F_lph_Set2	1.847	0	0.0	NA	NA	NA	10
M_0.6_F_lth_Set1	1.868	0	0.5	NA	NA	NA	19
M_0.6_F_lth_Set2	1.875	0	0.0	NA	NA	NA	10
M_0.6_F_qpt_Set1	1.749	0	0.5	NA	NA	NA	17
M_0.6_F_qpt_Set2	1.846	0	0.0	190.317	27.003	0.000	6
M_0.6_F_qph_Set1	1.936	0	0.0	NA	NA	NA	15

M_0.6_F_qph_Set2	1.848	0	0.0	NA	NA	NA	10
M_0.6_F_qth_Set1	1.878	0	0.5	NA	NA	NA	20
M_0.6_F_qth_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.6_F_pth_Set1	1.878	0	0.5	NA	NA	NA	19
M_0.6_F_pth_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.6_F_lqpt_Set1	1.738	0	0.5	NA	NA	NA	17
M_0.6_F_lqpt_Set2	1.846	0	0.0	190.317	27.003	0.000	6
M_0.6_F_lqph_Set1	1.935	0	0.0	NA	NA	NA	15
M_0.6_F_lqph_Set2	1.849	0	0.0	NA	NA	NA	10
M_0.6_F_lqth_Set1	1.868	0	0.5	NA	NA	NA	20
M_0.6_F_lqth_Set2	1.872	0	0.0	NA	NA	NA	10
M_0.6_F_lpth_Set1	1.872	0	0.5	NA	NA	NA	19
M_0.6_F_lpth_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.6_F_qpth_Set1	1.871	0	0.5	NA	NA	NA	19
M_0.6_F_qpth_Set2	1.874	0	0.0	NA	NA	NA	10
M_0.6_F_lqpth_Set1	1.871	0	0.5	NA	NA	NA	19
M_0.6_F_lqpth_Set2	1.873	0	0.0	NA	NA	NA	10
M_0.7_F_l_Set1	1.669	0	0.0	178.176	14.862	0.000	3
M_0.7_F_l_Set2	1.683	0	0.0	174.025	10.711	0.000	2
M_0.7_F_q_Set1	1.673	0	0.0	191.202	27.888	0.000	5
M_0.7_F_q_Set2	1.644	0	0.0	173.039	9.725	0.000	2
M_0.7_F_p_Set1	1.664	0	0.0	182.200	18.887	0.000	4
M_0.7_F_p_Set2	1.324	0	1.0	181.154	17.840	0.000	1
M_0.7_F_t_Set1	1.618	0	0.5	NA	NA	NA	13
M_0.7_F_t_Set2	1.191	0	0.5	178.748	15.434	0.000	5
M_0.7_F_h_Set1	1.920	0	0.0	NA	NA	NA	12
M_0.7_F_h_Set2	1.833	0	0.0	309.927	146.613	0.000	8
M_0.7_F_lq_Set1	1.755	0	0.0	178.930	15.616	0.000	4
M_0.7_F_lq_Set2	1.713	0	0.0	174.276	10.962	0.000	3
M_0.7_F_lp_Set1	1.648	0	0.0	182.269	18.955	0.000	4
M_0.7_F_lp_Set2	1.652	0	0.0	174.494	11.180	0.000	2
M_0.7_F_lt_Set1	1.729	0	0.5	NA	NA	NA	15
M_0.7_F_lt_Set2	1.807	0	0.0	313.037	149.723	0.000	8

M_0.7_F_lh_Set1	1.920	0	0.0	NA	NA	NA	12
M_0.7_F_lh_Set2	1.831	0	0.0	309.927	146.613	0.000	8
M_0.7_F_qp_Set1	1.682	0	0.0	181.354	18.040	0.000	4
M_0.7_F_qp_Set2	1.603	0	0.0	173.642	10.328	0.000	2
M_0.7_F_qt_Set1	1.823	0	0.5	NA	NA	NA	15
M_0.7_F_qt_Set2	1.846	0	0.0	221.610	58.296	0.000	7
M_0.7_F_qh_Set1	1.927	0	0.0	NA	NA	NA	16
M_0.7_F_qh_Set2	1.833	0	0.0	309.927	146.613	0.000	8
M_0.7_F_pt_Set1	1.731	0	0.5	NA	NA	NA	14
M_0.7_F_pt_Set2	1.191	0	0.5	178.748	15.434	0.000	5
M_0.7_F_ph_Set1	1.923	0	0.0	NA	NA	NA	12
M_0.7_F_ph_Set2	1.833	0	0.0	309.927	146.613	0.000	8
M_0.7_F_th_Set1	1.862	0	0.5	NA	NA	NA	16
M_0.7_F_th_Set2	1.850	0	0.0	307.770	144.456	0.000	8
M_0.7_F_lqp_Set1	1.678	0	0.0	175.240	11.926	0.000	3
M_0.7_F_lqp_Set2	1.672	0	0.0	171.806	8.492	0.000	2
M_0.7_F_lqt_Set1	1.803	0	0.5	NA	NA	NA	17
M_0.7_F_lqt_Set2	1.856	0	0.0	221.899	58.585	0.000	7
M_0.7_F_lqh_Set1	1.928	0	0.0	NA	NA	NA	16
M_0.7_F_lqh_Set2	1.832	0	0.0	309.927	146.613	0.000	8
M_0.7_F_lpt_Set1	1.712	0	0.5	NA	NA	NA	14
M_0.7_F_lpt_Set2	1.767	0	0.5	222.874	59.560	0.000	7
M_0.7_F_lph_Set1	1.922	0	0.0	NA	NA	NA	12
M_0.7_F_lph_Set2	1.831	0	0.0	309.927	146.613	0.000	8
M_0.7_F_lth_Set1	1.868	0	0.5	NA	NA	NA	16
M_0.7_F_lth_Set2	1.850	0	0.0	307.770	144.456	0.000	8
M_0.7_F_qpt_Set1	1.739	0	0.5	NA	NA	NA	15
M_0.7_F_qpt_Set2	1.839	0	0.0	191.770	28.456	0.000	6
M_0.7_F_qph_Set1	1.920	0	0.0	NA	NA	NA	12
M_0.7_F_qph_Set2	1.835	0	0.0	309.927	146.613	0.000	8
M_0.7_F_qth_Set1	1.867	0	0.5	NA	NA	NA	16
M_0.7_F_qth_Set2	1.853	0	0.0	307.770	144.456	0.000	8
M_0.7_F_pth_Set1	1.869	0	0.5	NA	NA	NA	16

M_0.7_F_pth_Set2	1.847	0	0.0	307.770	144.456	0.000	8
M_0.7_F_lqpt_Set1	1.735	0	0.5	NA	NA	NA	15
M_0.7_F_lqpt_Set2	1.843	0	0.0	221.852	58.538	0.000	7
M_0.7_F_lqph_Set1	1.921	0	0.0	NA	NA	NA	12
M_0.7_F_lqph_Set2	1.834	0	0.0	309.927	146.613	0.000	8
M_0.7_F_lqth_Set1	1.866	0	0.5	NA	NA	NA	16
M_0.7_F_lqth_Set2	1.854	0	0.0	307.770	144.456	0.000	8
M_0.7_F_lpth_Set1	1.864	0	0.5	NA	NA	NA	16
M_0.7_F_lpth_Set2	1.852	0	0.0	307.770	144.456	0.000	8
M_0.7_F_qpth_Set1	1.869	0	0.5	NA	NA	NA	16
M_0.7_F_qpth_Set2	1.845	0	0.0	307.770	144.456	0.000	8
M_0.7_F_lqpth_Set1	1.870	0	0.5	NA	NA	NA	16
M_0.7_F_lqpth_Set2	1.855	0	0.0	307.770	144.456	0.000	8
M_0.8_F_l_Set1	1.659	0	0.0	174.121	10.807	0.000	2
M_0.8_F_l_Set2	1.678	0	0.0	174.121	10.807	0.000	2
M_0.8_F_q_Set1	1.663	0	0.0	182.454	19.140	0.000	4
M_0.8_F_q_Set2	1.639	0	0.0	173.104	9.790	0.000	2
M_0.8_F_p_Set1	1.641	0	0.0	176.536	13.222	0.000	3
M_0.8_F_p_Set2	1.322	0	1.0	181.217	17.903	0.000	1
M_0.8_F_t_Set1	1.596	0	0.5	NA	NA	NA	13
M_0.8_F_t_Set2	1.191	0	0.5	171.145	7.831	0.000	4
M_0.8_F_h_Set1	1.905	0	0.0	NA	NA	NA	13
M_0.8_F_h_Set2	1.814	0	0.0	221.130	57.816	0.000	7
M_0.8_F_lq_Set1	1.745	0	0.0	174.114	10.800	0.000	3
M_0.8_F_lq_Set2	1.708	0	0.0	171.258	7.944	0.000	2
M_0.8_F_lp_Set1	1.638	0	0.0	182.657	19.343	0.000	4
M_0.8_F_lp_Set2	1.640	0	0.0	174.717	11.403	0.000	2
M_0.8_F_lt_Set1	1.719	0	0.5	NA	NA	NA	15
M_0.8_F_lt_Set2	1.807	0	0.0	225.299	61.985	0.000	7
M_0.8_F_lh_Set1	1.908	0	0.0	NA	NA	NA	13
M_0.8_F_lh_Set2	1.813	0	0.0	221.130	57.816	0.000	7
M_0.8_F_qp_Set1	1.664	0	0.0	181.858	18.544	0.000	4
M_0.8_F_qp_Set2	1.587	0	0.0	173.873	10.559	0.000	2

M_0.8_F_qt_Set1	1.831	0	0.5	NA	NA	NA	15
M_0.8_F_qt_Set2	1.834	0	0.0	223.559	60.245	0.000	7
M_0.8_F_qh_Set1	1.918	0	0.0	NA	NA	NA	14
M_0.8_F_qh_Set2	1.812	0	0.0	221.130	57.816	0.000	7
M_0.8_F_pt_Set1	1.721	0	0.5	NA	NA	NA	14
M_0.8_F_pt_Set2	1.191	0	0.5	171.145	7.831	0.000	4
M_0.8_F_ph_Set1	1.905	0	0.0	NA	NA	NA	13
M_0.8_F_ph_Set2	1.812	0	0.0	221.130	57.816	0.000	7
M_0.8_F_th_Set1	1.855	0	0.5	NA	NA	NA	17
M_0.8_F_th_Set2	1.849	0	0.0	219.230	55.916	0.000	7
M_0.8_F_lqp_Set1	1.658	0	0.0	175.715	12.401	0.000	3
M_0.8_F_lqp_Set2	1.657	0	0.0	172.038	8.724	0.000	2
M_0.8_F_lqt_Set1	1.773	0	0.5	NA	NA	NA	15
M_0.8_F_lqt_Set2	1.852	0	0.0	224.022	60.708	0.000	7
M_0.8_F_lqh_Set1	1.918	0	0.0	NA	NA	NA	14
M_0.8_F_lqh_Set2	1.814	0	0.0	221.130	57.816	0.000	7
M_0.8_F_lpt_Set1	1.718	0	0.5	NA	NA	NA	14
M_0.8_F_lpt_Set2	1.758	0	0.5	224.733	61.419	0.000	7
M_0.8_F_lph_Set1	1.906	0	0.0	NA	NA	NA	13
M_0.8_F_lph_Set2	1.814	0	0.0	221.130	57.816	0.000	7
M_0.8_F_lth_Set1	1.856	0	0.5	NA	NA	NA	17
M_0.8_F_lth_Set2	1.850	0	0.0	219.230	55.916	0.000	7
M_0.8_F_qpt_Set1	1.747	0	0.5	NA	NA	NA	15
M_0.8_F_qpt_Set2	1.826	0	0.0	193.464	30.150	0.000	6
M_0.8_F_qph_Set1	1.907	0	0.0	NA	NA	NA	13
M_0.8_F_qph_Set2	1.813	0	0.0	221.130	57.816	0.000	7
M_0.8_F_qth_Set1	1.866	0	0.5	NA	NA	NA	16
M_0.8_F_qth_Set2	1.850	0	0.0	219.230	55.916	0.000	7
M_0.8_F_pth_Set1	1.857	0	0.5	NA	NA	NA	17
M_0.8_F_pth_Set2	1.848	0	0.0	219.230	55.916	0.000	7
M_0.8_F_lqpt_Set1	1.741	0	0.5	NA	NA	NA	15
M_0.8_F_lqpt_Set2	1.826	0	0.0	223.667	60.353	0.000	7
M_0.8_F_lqph_Set1	1.904	0	0.0	NA	NA	NA	13

M_0.8_F_lqph_Set2	1.812	0	0.0	221.130	57.816	0.000	7
M_0.8_F_lqth_Set1	1.865	0	0.5	NA	NA	NA	16
M_0.8_F_lqth_Set2	1.848	0	0.0	219.230	55.916	0.000	7
M_0.8_F_lpth_Set1	1.860	0	0.5	NA	NA	NA	17
M_0.8_F_lpth_Set2	1.848	0	0.0	219.230	55.916	0.000	7
M_0.8_F_qpth_Set1	1.855	0	0.5	NA	NA	NA	17
M_0.8_F_qpth_Set2	1.851	0	0.0	219.230	55.916	0.000	7
M_0.8_F_lqpth_Set1	1.853	0	0.5	NA	NA	NA	17
M_0.8_F_lqpth_Set2	1.849	0	0.0	219.230	55.916	0.000	7
M_0.9_F_l_Set1	1.652	0	0.0	178.514	15.200	0.000	3
M_0.9_F_l_Set2	1.674	0	0.0	174.226	10.912	0.000	2
M_0.9_F_q_Set1	1.655	0	0.0	176.669	13.355	0.000	3
M_0.9_F_q_Set2	1.634	0	0.0	173.177	9.863	0.000	2