

Transition Curve Fitting Tool: Results

User Information:

Date: 2021-02-17

Starting Values for Optimization

Model: HT (Hyperbolic Tangent)

Parameter	Initial.Value
C (°C)	25.000
T0 (°C)	15.500
lse	0.046
use	1.500

Model: AHT (Asymmetric Hyperbolic Tangent)

Parameter	Initial.Value
C (°C)	25.000
T0 (°C)	15.500
D	0.000
lse	0.046
use	1.500

Model: BUR (Burr)

Parameter	Initial.Value
k	1.000
T0 (°C)	15.500
m	0.100
lse	0.046
use	1.500

Model: ACT (Arctangent)

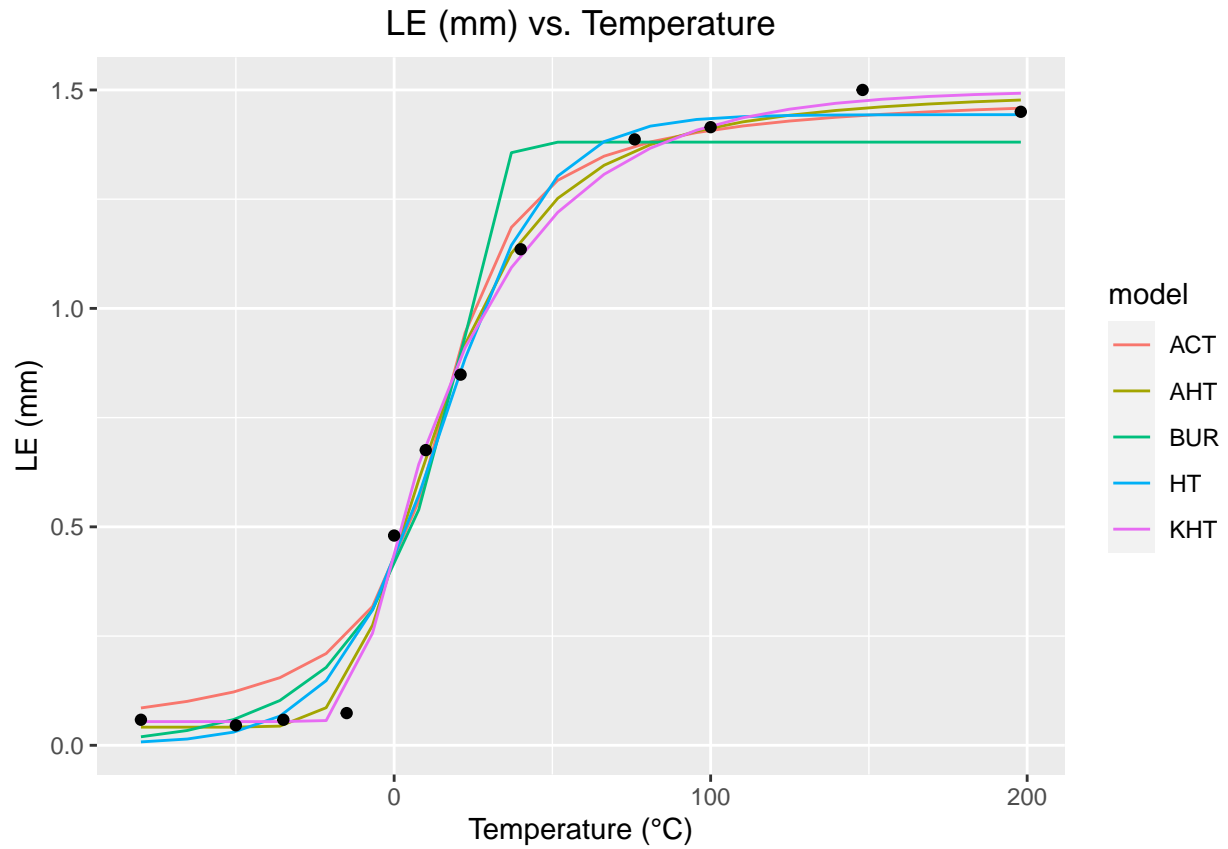
Parameter	Initial.Value
C (°C)	25.000
DBTT (°C)	15.500
lse	0.046
use	1.500

Model: KHT (Kohout - Asymmetric)

Parameter	Initial.Value
C (°C)	25.000
T0 (°C)	15.500
p	1.000
lse	0.046
use	1.500

Shelf selection: Both shelves were set to be not fixed. The upper shelf was initialized to be 1.5 mm and the lower shelf was initialized to be 0.04572 mm.

Fitted Plot



Coefficients Table

Model	Coefficient	Estimate	S.E.	Lower CI	Upper CI
KHT	C	21.1525	1.9068	17.5386	25.0674
KHT	T0	-9.7770	2.9941	-14.9944	-3.7382
KHT	p	12.6768	54.1194	4.1261	143.9265
KHT	LSE	0.0542	0.0149	0.0272	0.0853
KHT	USE	1.4992	0.0232	1.4574	1.5470
AHT	C	28.9708	2.4375	24.1854	35.2390
AHT	DBTT	15.2975	1.4371	12.3580	18.7466
AHT	D	0.3621	0.0875	0.0858	0.4177
AHT	LSE	0.0415	0.0166	0.0162	0.0861
AHT	USE	1.5150	0.0380	1.4237	1.5813
HT	C	33.1515	4.2812	24.0632	40.9383
HT	DBTT	14.8308	2.2372	11.6246	20.3529
HT	LSE	0.0030	0.0301	0.0000	0.1066
HT	USE	1.4434	0.0358	1.3710	1.5110
ACT	C	26.9575	6.8136	13.3179	39.4581
ACT	DBTT	15.0942	2.9752	9.8102	21.9762
ACT	LSE	0.0000	0.0473	0.0000	0.1562
ACT	USE	1.5030	0.0575	1.3869	1.6053
BUR	k	0.3740	1.4739	0.0737	5.3264
BUR	T0	32.6244	11.1196	-0.2263	44.2207
BUR	m	0.1012	2.5105	0.0082	2.7579
BUR	LSE	0.0000	0.0652	0.0000	0.2222
BUR	USE	1.3806	0.0602	1.2803	1.5126

Fit Metrics Table

	Model	RMSE	AIC	BIC	Converged?
5	KHT	0.031	-78.171	-75.261	Yes
2	AHT	0.046	-68.293	-65.384	Yes
1	HT	0.065	-60.336	-57.911	Yes
4	ACT	0.094	-51.707	-49.283	Yes
3	BUR	0.131	-43.285	-40.375	Yes

DBTT Table (°C)

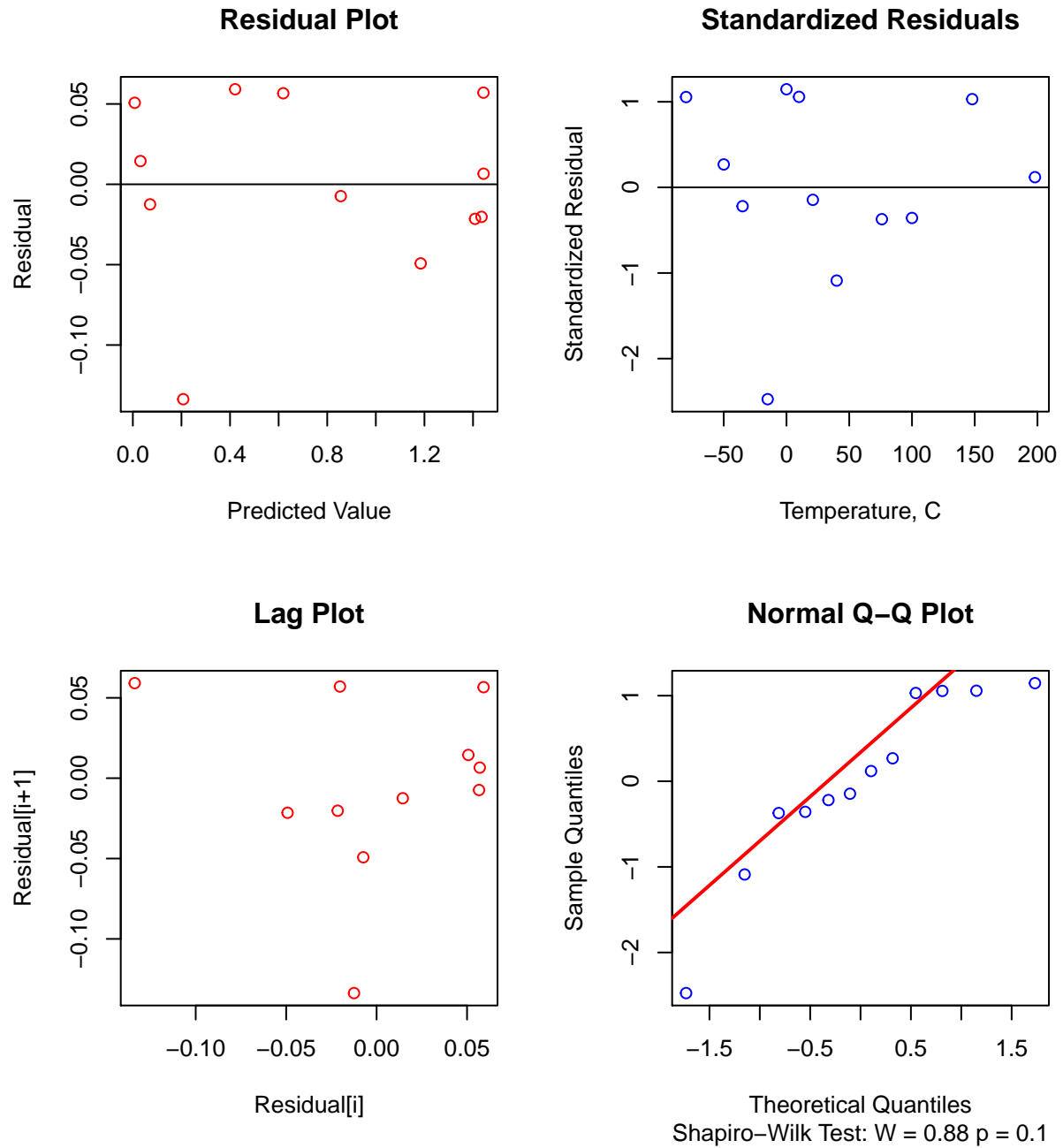
Model	Estimate	S.E.	Lower CI	Upper CI
KHT	14.4254	1.3033	11.3435	17.5072
AHT	15.2975	1.4371	12.3580	18.7466
HT	14.8308	2.2372	11.6246	20.3529
ACT	15.0942	2.9752	9.8102	21.9762
BUR	14.3115	3.6160	5.7610	22.8619

Other Characteristic Temperatures Table (°C)

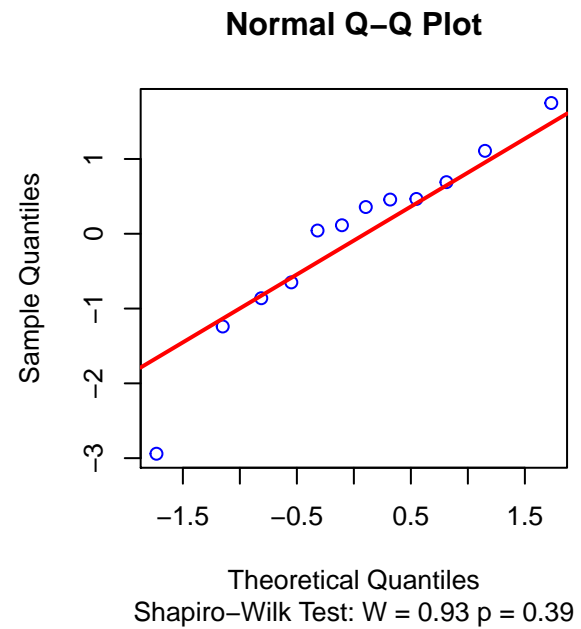
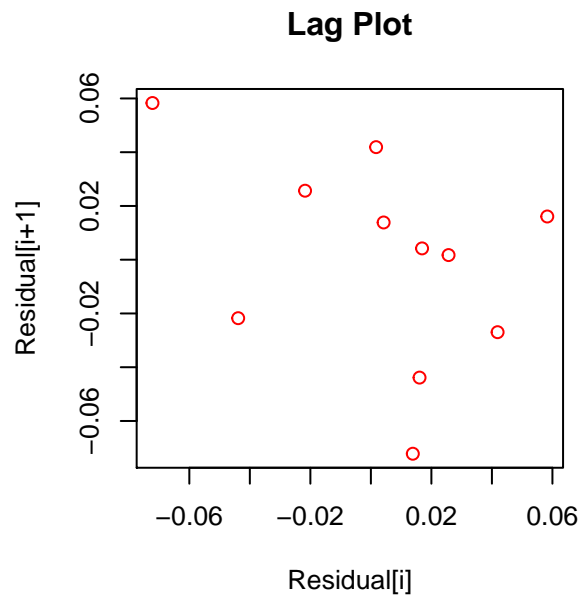
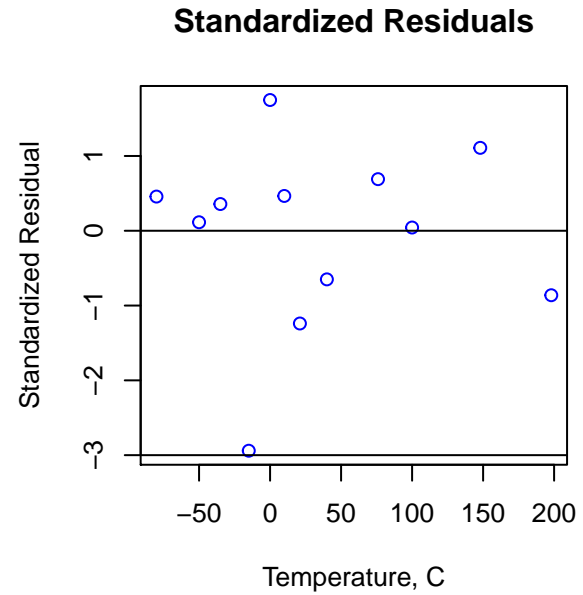
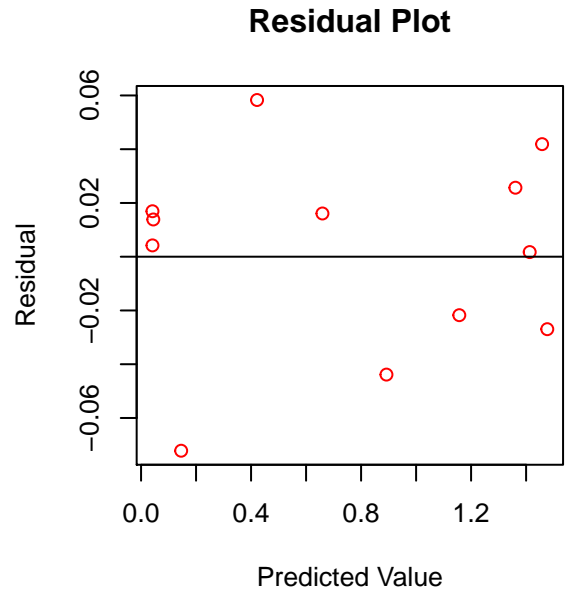
No additional characteristic temperatures selected.

Residuals

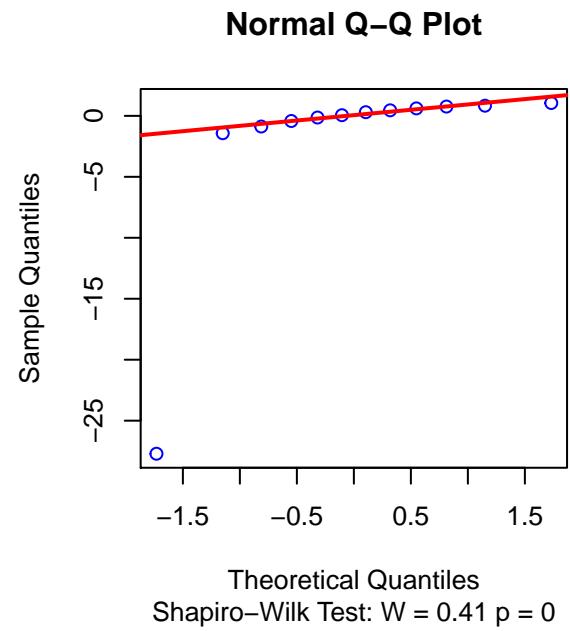
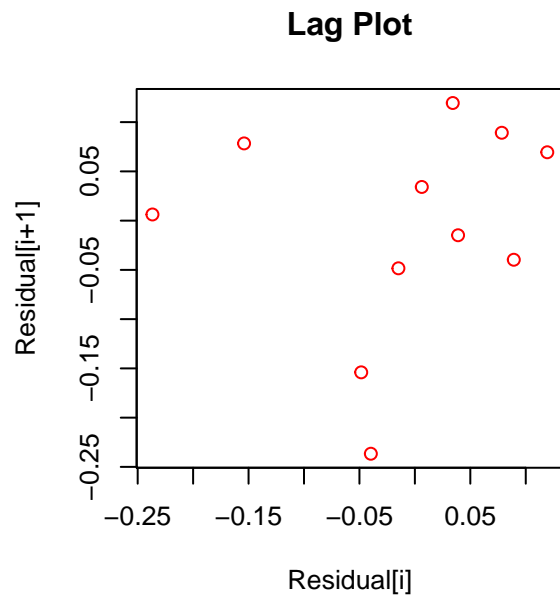
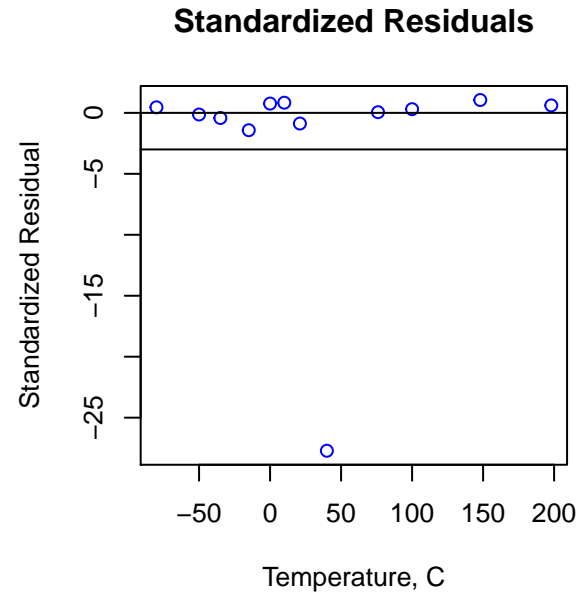
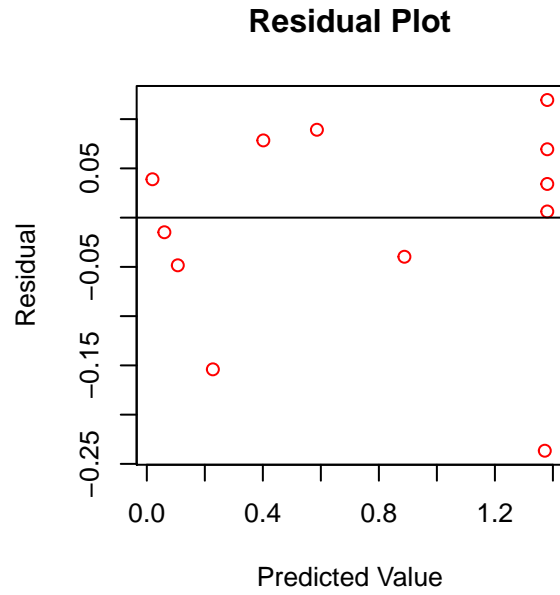
Model: HT



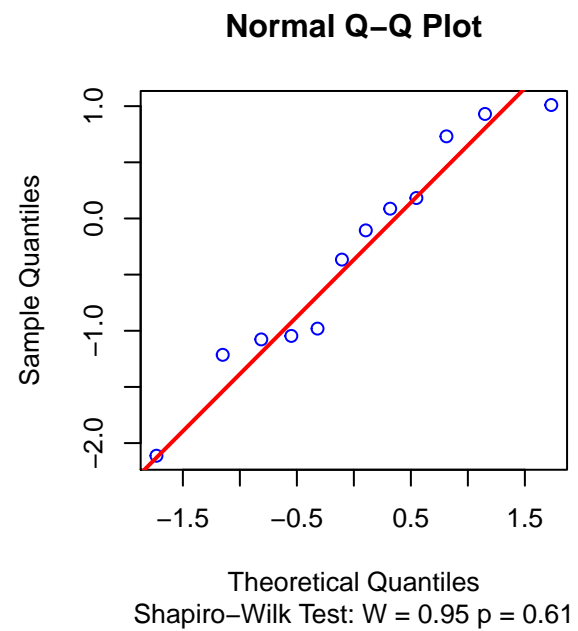
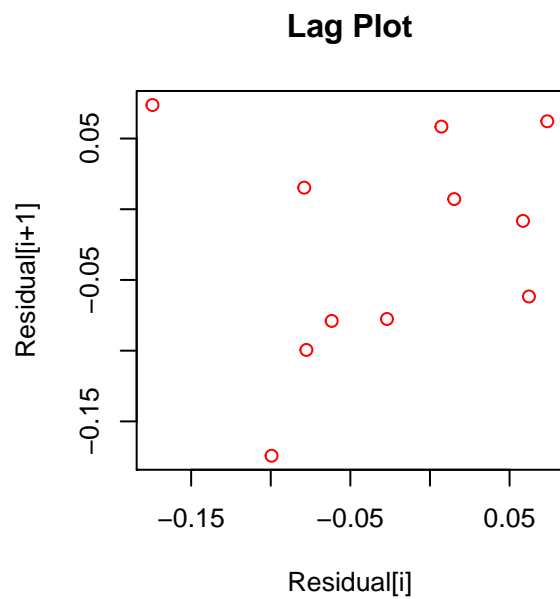
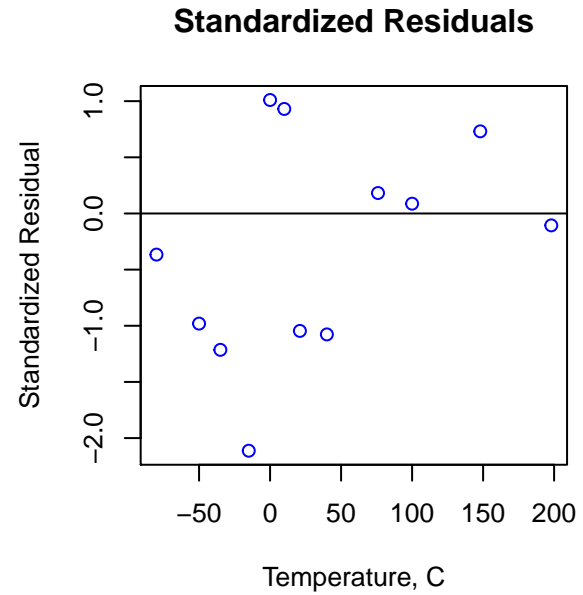
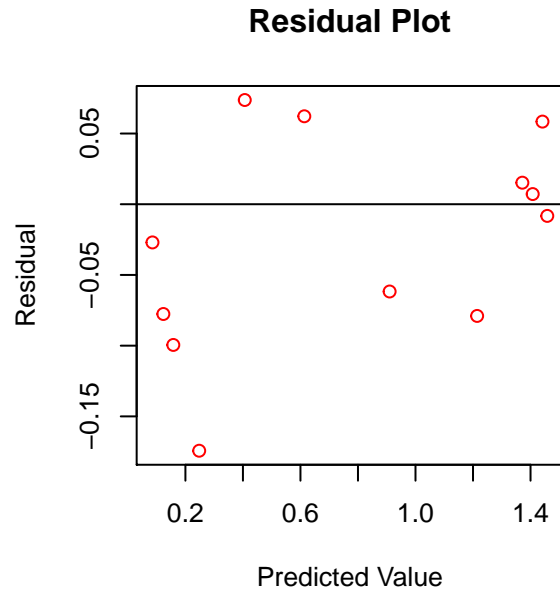
Model: AHT



Model: BUR



Model: ACT



Model: KHT

