



Parameters								
Parameter	Name	Type	Functions	z_i	μ_i	σ_i	l_{lim_i}	u_{lim_i}
r_1, s_1	intcal13	Curve					-48054.5	1965.5
r_2, s_2	ShCal13	Curve					-48054.5	1965.5
t_3	Start House 1	Boundary			1375.34	33.7207	860.5	1465.5
t_4	Beta 414089	R_Date			1392.52	23.0165	1260.5	1465.5
t_5	Transition 1/2	Boundary			1423.5	28.9853	1260.5	1660.5
t_6	Beta 414088	R_Date			1461.95	16.1542	1380.5	1660.5
t_7	Transition 2/3	Boundary			1495.23	22.642	1380.5	1810.5
t_8	Beta 414087	R_Date			1518.31	13.8311	1440.5	1810.5
t_9	Transition 3/4	Boundary			1527.3	16.0437	1440.5	1810.5
t_{10}	Beta 414086	R_Date			1226.79	27.8109	1015.5	1395.5
t_{11}	Transition 4/5	Boundary			1541.05	17.9083	1440.5	1810.5
t_{12}	Beta 414085	R_Date			1548.06	18.2025	1440.5	1810.5
t_{13}	Transition 5/7	Boundary			1555.28	19.4999	1440.5	1810.5
t_{14}	Beta 414084	R_Date			1562.71	19.9493	1440.5	1810.5
t_{15}	Transition 7/8	Boundary			1570.71	21.5131	1440.5	1810.5
t_{16}	Beta 414083	R_Date			1432.76	13.0176	1300.5	1635.5
t_{17}	Transition 8/9	Boundary			1586.79	22.8537	1440.5	1810.5
t_{18}	Beta 414091	R_Date			1594.83	22.5138	1440.5	1810.5
t_{19}	Transition 9/10	Boundary			1603.22	22.3753	1440.5	1815.5
t_{20}	Beta 414082	R_Date			1611.59	21.0168	1440.5	1815.5
t_{21}	Transition 10/11	Boundary			1619.79	19.7278	1440.5	1815.5
t_{22}	Beta 414081	R_Date			1628.4	17.2556	1440.5	1815.5
t_{23}	Transition 11/12	Boundary			1638	18.3416	1440.5	1965.5
t_{24}	Beta 414080	R_Date			1648.53	19.1728	1440.5	1965.5
t_{25}	End House 1	Boundary			1661.8	28.6764	1440.5	2490.5

Likelihoods		
$p(y_i t_i)$	F_i	$A_i=100 F_i$
$p(y_4 t_4) \sim R_Date_4(t_4, r_2, s_2, 630,30)$	$F_4 = (\int p(y_4 t_4) p(t_4 y) dt_4) / (\int p^2(y_4 t_4) dt_4)$	0.86950 86.95
$p(y_6 t_6) \sim R_Date_6(t_6, r_2, s_2, 460,30)$	$F_6 = (\int p(y_6 t_6) p(t_6 y) dt_6) / (\int p^2(y_6 t_6) dt_6)$	1.10100 110.10
$p(y_8 t_8) \sim R_Date_8(t_8, r_2, s_2, 300,30)$	$F_8 = (\int p(y_8 t_8) p(t_8 y) dt_8) / (\int p^2(y_8 t_8) dt_8)$	0.57410 57.41
$p(y_{10} t_{10}) \sim R_Date_{10}(t_{10}, r_2, s_2, 860,30)$	$F_{10} = (\int p(y_{10} t_{10}) p(t_{10} y) dt_{10}) / (\int p^2(y_{10} t_{10}) dt_{10})$	
$p(y_{12} t_{12}) \sim R_Date_{12}(t_{12}, r_2, s_2, 340,30)$	$F_{12} = (\int p(y_{12} t_{12}) p(t_{12} y) dt_{12}) / (\int p^2(y_{12} t_{12}) dt_{12})$	1.14390 114.39
$p(y_{14} t_{14}) \sim R_Date_{14}(t_{14}, r_2, s_2, 350,30)$	$F_{14} = (\int p(y_{14} t_{14}) p(t_{14} y) dt_{14}) / (\int p^2(y_{14} t_{14}) dt_{14})$	1.11520 111.52
$p(y_{16} t_{16}) \sim R_Date_{16}(t_{16}, r_2, s_2, 520,30)$	$F_{16} = (\int p(y_{16} t_{16}) p(t_{16} y) dt_{16}) / (\int p^2(y_{16} t_{16}) dt_{16})$	
$p(y_{18} t_{18}) \sim R_Date_{18}(t_{18}, r_2, s_2, 360,30)$	$F_{18} = (\int p(y_{18} t_{18}) p(t_{18} y) dt_{18}) / (\int p^2(y_{18} t_{18}) dt_{18})$	1.01190 101.19
$p(y_{20} t_{20}) \sim R_Date_{20}(t_{20}, r_2, s_2, 350,30)$	$F_{20} = (\int p(y_{20} t_{20}) p(t_{20} y) dt_{20}) / (\int p^2(y_{20} t_{20}) dt_{20})$	0.93600 93.60
$p(y_{22} t_{22}) \sim R_Date_{22}(t_{22}, r_2, s_2, 340,30)$	$F_{22} = (\int p(y_{22} t_{22}) p(t_{22} y) dt_{22}) / (\int p^2(y_{22} t_{22}) dt_{22})$	0.96630 96.63
$p(y_{24} t_{24}) \sim R_Date_{24}(t_{24}, r_2, s_2, 280,30)$	$F_{24} = (\int p(y_{24} t_{24}) p(t_{24} y) dt_{24}) / (\int p^2(y_{24} t_{24}) dt_{24})$	1.43240 143.24
n		9
F_{model}	$\int p(y t) p(t y) dt / \int p(y t) p(y t) dt$	0.903286
A_{model}	$100 F_{model}^{1/n}$	96.67
F_{overall}	$\prod F_i$	0.919076
A_{overall}	$100 F_{overall}^{1/n}$	97.23

Constraints

$t_3 < t_4$	$t_4 < t_5$	$t_5 < t_6$	$t_6 < t_7$	$t_7 < t_8$
$t_8 < t_9$	$t_9 ? < t_{10}$	$t_9 < t_{11}$	$t_{10} ? < t_{11}$	$t_{11} < t_{12}$
$t_{12} < t_{13}$	$t_{13} < t_{14}$	$t_{14} < t_{15}$	$t_{15} ? < t_{16}$	$t_{15} < t_{17}$
$t_{16} ? < t_{17}$	$t_{17} < t_{18}$	$t_{18} < t_{19}$	$t_{19} < t_{20}$	$t_{20} < t_{21}$
$t_{21} < t_{22}$	$t_{22} < t_{23}$	$t_{23} < t_{24}$	$t_{24} < t_{25}$	

Prior factors

$1/\min((ulim_{25} - llim_3) - (t_{25} - t_3), (t_{25} - t_3) - (llim_{25} - ulim_3), ulim_{25} - llim_{25}, ulim_3 - llim_3)$
$1/(t_5 - t_3)^1$
$1/(t_7 - t_5)^1$
$1/(t_9 - t_7)^1$
$1/(t_{13} - t_{11})^1$
$1/(t_{15} - t_{13})^1$
$1/(t_{19} - t_{17})^1$
$1/(t_{21} - t_{19})^1$
$1/(t_{23} - t_{21})^1$
$1/(t_{25} - t_{23})^1$
$1/(t_{25} - t_3)^{10}$

Groupings used in generating above priors

Type	b_{lower}	type	elements	n	b_{upper}	type
Sequence	t_3	Boundary	t_4	1	t_5	Boundary
Sequence	t_5	Boundary	t_6	1	t_7	Boundary
Sequence	t_7	Boundary	t_8	1	t_9	Boundary
Sequence	t_9	Boundary		0	t_{11}	Boundary
Sequence	t_{11}	Boundary	t_{12}	1	t_{13}	Boundary
Sequence	t_{13}	Boundary	t_{14}	1	t_{15}	Boundary
Sequence	t_{15}	Boundary		0	t_{17}	Boundary
Sequence	t_{17}	Boundary	t_{18}	1	t_{19}	Boundary
Sequence	t_{19}	Boundary	t_{20}	1	t_{21}	Boundary
Sequence	t_{21}	Boundary	t_{22}	1	t_{23}	Boundary
Sequence	t_{23}	Boundary	t_{24}	1	t_{25}	Boundary
Sequence	t_3	Boundary	$t_5, t_7, t_9, t_{11}, t_{13}, t_{15}, t_{17}, t_{19}, t_{21}, t_{23}$	10	t_{25}	Boundary