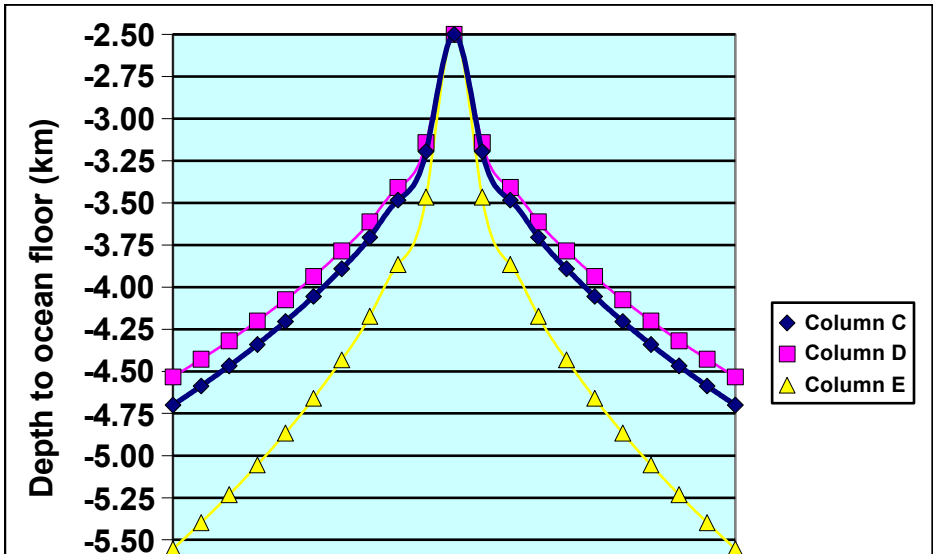
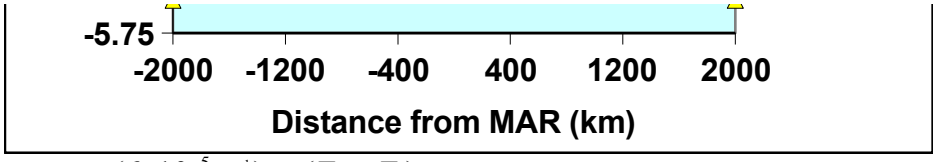
$\rho_m = \quad T_m$ **Assume Ocean temp=280K and Ocean density=1.0 g/cc**

		4.3	1580	4.29
Name:	Sample Doc	C	0.1	
Date:	3/4/5007	3.3	2054	
Assignment:	XL # 999	C	0.15	

	mantle Temp	1580.00	1580.00	2054.00
	mantle density	3.30	4.30	3.30
		Exp 1	Exp 2	Exp3
depth of ridge	D*(km)=	2.5	2.5	2.5
Constant	C=	0.11	0.10	0.15
Spreading rate	U (km/Myr)=	50.0	50.0	50.0
		Depth	Depth	Depth
	Distance X (km)	w (km)	w (km)	w (km)
	-2000	-4.70	-4.53	-5.55
	-1800	-4.59	-4.43	-5.40
	-1600	-4.47	-4.32	-5.23
	-1400	-4.34	-4.20	-5.06
	-1200	-4.20	-4.07	-4.87
	-1000	-4.06	-3.94	-4.66
	-800	-3.89	-3.79	-4.43
	-600	-3.70	-3.61	-4.17
	-400	-3.48	-3.41	-3.87
	-200	-3.20	-3.14	-3.47
	0	-2.50	-2.50	-2.50
	200	-3.20	-3.14	-3.47
	400	-3.48	-3.41	-3.87
	600	-3.70	-3.61	-4.17
	800	-3.89	-3.79	-4.43
	1000	-4.06	-3.94	-4.66
	1200	-4.20	-4.07	-4.87
	1400	-4.34	-4.20	-5.06
	1600	-4.47	-4.32	-5.23
	1800	-4.59	-4.43	-5.40
	2000	-4.70	-4.53	-5.55

3.3 1580
0.11





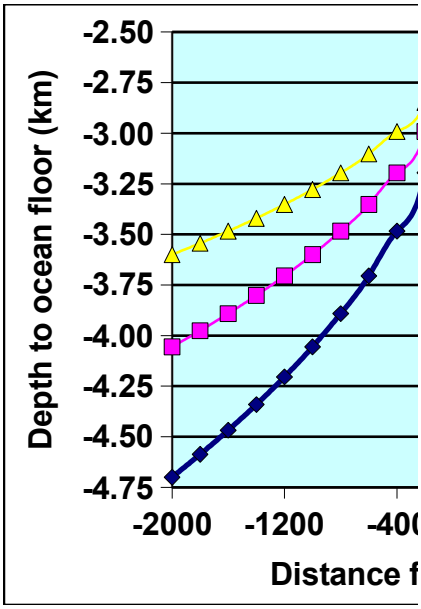
$$C = \frac{(6x10^{-5}K^{-1})\rho_m(T_m - T_0)}{(\rho_m - \rho_O)}$$

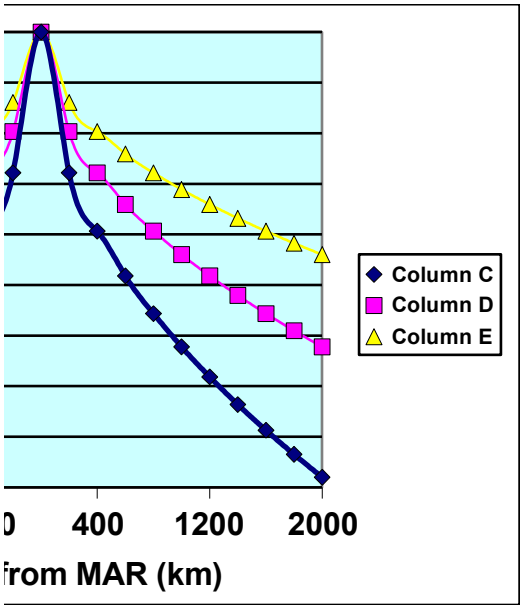
with $\rho_m = 3.3 \, g/cm^3$ $\rho_O = 1.0 \, g/cm^3$ $T_m - T_O = 1300K$

$C = .11$

Name: Jane Smyth
Date: 3/4/5007
Assignment: XL # 999

depth of ridge	D*(km)=	2.5	2.5	2.5
Constant	C=	0.11	0.11	0.11
Spreading rate	U (km/Myr)=	50.0	100.0	200.0
		Depth	Depth	Depth
	Distance X (km)	w (km)	w (km)	w (km)
	-2000	-4.70	-4.06	-3.60
	-1800	-4.59	-3.98	-3.54
	-1600	-4.47	-3.89	-3.48
	-1400	-4.34	-3.80	-3.42
	-1200	-4.20	-3.70	-3.35
	-1000	-4.06	-3.60	-3.28
	-800	-3.89	-3.48	-3.20
	-600	-3.70	-3.35	-3.10
	-400	-3.48	-3.20	-2.99
	-200	-3.20	-2.99	-2.85
	0	-2.50	-2.50	-2.50
	200	-3.20	-2.99	-2.85
	400	-3.48	-3.20	-2.99
	600	-3.70	-3.35	-3.10
	800	-3.89	-3.48	-3.20
	1000	-4.06	-3.60	-3.28
	1200	-4.20	-3.70	-3.35
	1400	-4.34	-3.80	-3.42
	1600	-4.47	-3.89	-3.48
	1800	-4.59	-3.98	-3.54
	2000	-4.70	-4.06	-3.60

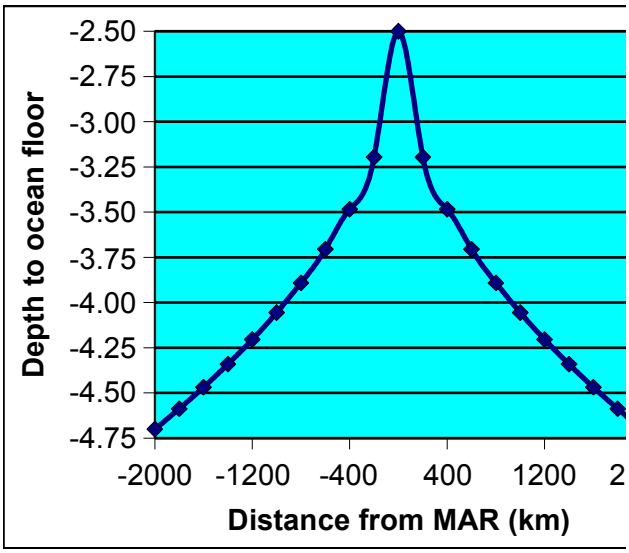


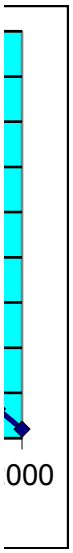

Column C
Column D
Column E
0
400
1200
2000
from MAR (km)

Name: Jane Smyth
Date: 3/4/5007
Assignment: XL # 999

depth of ridge	D*(km)=	2.5
Constant	C=	0.11
Spreading rate	U (km/Myr)=	50.0

Distance X (km)	Depth w (km)
-2000	-4.70
-1800	-4.59
-1600	-4.47
-1400	-4.34
-1200	-4.20
-1000	-4.06
-800	-3.89
-600	-3.70
-400	-3.48
-200	-3.20
0	-2.50
200	-3.20
400	-3.48
600	-3.70
800	-3.89
1000	-4.06
1200	-4.20
1400	-4.34
1600	-4.47
1800	-4.59
2000	-4.70

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Name: Jane Smyth
Date: 3/4/5007
Assignment: XL # 999

depth of ridge	D*(km)=	2.5
Constant	C=	0.11
Spreading rate	U (km/Myr)=	50.0

Distance X (km)	Depth w (km)
-2000	-4.70
-1800	-4.59
-1600	-4.47
-1400	-4.34
-1200	-4.20
-1000	-4.06
-800	-3.89
-600	-3.70
-400	-3.48
-200	-3.20
0	-2.50
200	-3.20
400	-3.48
600	-3.70
800	-3.89
1000	-4.06
1200	-4.20
1400	-4.34
1600	-4.47
1800	-4.59
2000	-4.70

Name: Jane Smyth
Date: 3/4/5007
Assignment: XL # 999

depth of ridge	D*(km)=	2.5
Constant	C=	0.11
Spreading rate	U (km/Myr)=	50

Distance X (km)	Depth, w (km)
-2000	-4.7