

MATH 542 | Lab 3

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Problem 1

Problem 1a

```
birdful.data <- read.csv('BirdFlu.csv', header=T)
cases.2003 <- sum(birdful.data$X2003.cases)
```

Total cases in 2003: 4

Problem 1b

```
cases.2003.2005 <- sum(birdful.data$X2003.cases)+sum(birdful.data$X2005.cases)
```

Total cases in 2003 and 2005: 102

Problem 1c

```
total.deaths <- rowSums(birdful.data[, -1])
max.which <- which.max(total.deaths)
min.which <- which.min(total.deaths)
max.country <- birdful.data$Country[max.which]
min.country <- birdful.data$Country[min.which]
```

Country with most cases: Indonesia

Country with least cases: Bangladesh

Problem 1d

```
birdful.data['total'] <- total.deaths
library(knitr)
kable(subset(birdful.data, select=c('Country', 'total')))
```

Country	total
Azerbaijan	13
Bangladesh	1
Cambodia	14
China	50
Djibouti	1

Country	total
Egypt	72
Indonesia	245
Iraq	5
Lao People's Democratic Republic	4
Myanmar	1
Nigeria	2
Pakistan	4
Thailand	42
Turkey	16
VietNam	158

Total number of cases per year

```
column.sum <- colSums(birdful.data[,-1])
#t(kable(rbind(t(colnames(birdful.data)[2:13]), t(column.sum[1:12])))))
kable(column.sum[1:12])
```

X2003.cases	4
X2003.deaths	4
X2004.cases	46
X2004.deaths	32
X2005.cases	98
X2005.deaths	43
X2006.cases	115
X2006.deaths	79
X2007.cases	88
X2007.deaths	59
X2008.cases	34
X2008.deaths	26

Problem 2

```
isit <- read.csv('ISIT.txt', sep = '\t')
station1.data <- subset(isit, Station=="1")
nobs1 <- nrow(station1.data)
sample1.depth <- station1.data$SampleDepth
```

Problem 2a

Number of observations in station 1: 38

Summary of station 1:

```
summary(station1.data)
```

```
## SampleDepth Sources Station Time Latitude
## Min. : 517 Min. : 0.000 Min. :1 Min. :3 Min. :50.15
```

```
## 1st Qu.:1528 1st Qu.: 0.500 1st Qu.:1 1st Qu.:3 1st Qu.:50.15
## Median :2520 Median : 1.320 Median :1 Median :3 Median :50.15
## Mean :2549 Mean : 5.314 Mean :1 Mean :3 Mean :50.15
## 3rd Qu.:3652 3rd Qu.: 7.095 3rd Qu.:1 3rd Qu.:3 3rd Qu.:50.15
## Max. :3939 Max. :28.730 Max. :1 Max. :3 Max. :50.15
## Longitude Xkm Ykm Month
## Min. :-14.48 Min. :-34.11 Min. :16.78 Min. :4
## 1st Qu.:-14.48 1st Qu.:-34.11 1st Qu.:16.78 1st Qu.:4
## Median :-14.48 Median :-34.11 Median :16.78 Median :4
## Mean :-14.48 Mean :-34.11 Mean :16.78 Mean :4
## 3rd Qu.:-14.48 3rd Qu.:-34.11 3rd Qu.:16.78 3rd Qu.:4
## Max. :-14.48 Max. :-34.11 Max. :16.78 Max. :4
## Year BottomDepth Season Discovery RelativeDepth
## Min. :2001 Min. :3939 Min. :1 Min. :252 Min. : 0.0
## 1st Qu.:2001 1st Qu.:3939 1st Qu.:1 1st Qu.:252 1st Qu.: 286.5
## Median :2001 Median :3939 Median :1 Median :252 Median :1419.0
## Mean :2001 Mean :3939 Mean :1 Mean :252 Mean :1390.2
## 3rd Qu.:2001 3rd Qu.:3939 3rd Qu.:1 3rd Qu.:252 3rd Qu.:2411.5
## Max. :2001 Max. :3939 Max. :1 Max. :252 Max. :3422.0
```

Mean median etc of Sample.Depth:

```
summary(sample1.depth)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 517 1528 2520 2549 3652 3939
```

Mean: 2548.7631579

Median: 2520

Minimum: 517

Maximum: 3939

Problem 2b

Problem 2b.1

```
data2002 <- subset(isit, Year=2002)
kable(data2002)
```

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
517.00	28.730000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
582.00	27.900000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
547.00	23.440000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
614.00	18.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1068.00	12.380000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1005.00	11.230000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1036.00	11.060000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1100.00	10.570000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
1490.00	8.920000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1520.00	7.260000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1550.00	6.600000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1587.00	6.440000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1972.00	4.290000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2003.00	3.800000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2034.00	3.630000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2068.00	2.810000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2444.00	2.480000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2504.00	1.980000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2477.00	1.320000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2536.00	1.320000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3722.00	0.830000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3446.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3630.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3660.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3939.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3414.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3505.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3534.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3912.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3568.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3600.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3697.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3853.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3880.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3474.00	0.170000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3789.00	0.170000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3758.00	0.000000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3818.00	0.000000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
501.00	21.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
927.00	12.880000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
865.00	12.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
898.00	11.640000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
955.00	11.470000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1319.00	10.230000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1380.00	9.170000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1412.00	8.820000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1352.00	7.940000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1799.00	6.000000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1767.00	4.590000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1828.00	3.880000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
2300.00	3.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
1857.00	3.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
2243.00	2.470000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
2212.00	2.290000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
2267.00	2.290000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3333.00	1.410000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3277.00	1.060000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3394.00	1.060000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3362.00	0.880000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3164.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
3187.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3249.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3541.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3423.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3623.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3857.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3888.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3448.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3480.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3509.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3658.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3716.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3743.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3771.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3916.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3219.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3303.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3565.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3686.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3798.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3832.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
3595.00	0.000000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
516.00	24.430000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
550.00	22.410000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
591.00	20.070000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1053.00	12.140000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1020.00	11.050000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1090.00	10.740000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1125.00	9.650000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1555.00	8.250000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1588.00	7.000000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1626.00	6.850000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
1662.00	4.820000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2131.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2169.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2202.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2097.00	1.870000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2625.00	1.870000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2656.00	1.710000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2726.00	1.090000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3965.00	1.090000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3750.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3790.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3927.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
2692.00	0.470000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3890.00	0.470000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3856.00	0.310000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3716.00	0.160000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
3824.00	0.160000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
559.00	27.560000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740
634.00	27.560000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740
522.00	26.450000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
596.00	24.520000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740
670.00	17.730000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740
526.00	26.830000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
561.00	25.660000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
633.00	23.017153	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
596.00	20.670000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
671.00	20.085031	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
708.00	19.645213	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
742.00	16.126668	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
773.00	14.367395	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
811.00	12.461516	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
845.00	12.314910	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
882.00	12.021698	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
919.00	11.875092	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035
1305.00	33.910000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1355.00	33.590000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1257.00	32.300000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1208.00	29.710000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1750.00	20.020000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
718.00	19.490000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
818.00	18.410000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1796.00	16.790000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
768.00	16.470000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
668.00	16.260000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1847.00	12.920000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1899.00	9.150000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2386.00	2.150000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2289.00	1.940000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2335.00	1.830000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2435.00	1.610000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2828.00	1.400000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2875.00	0.750000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2975.00	0.750000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
2927.00	0.650000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3415.00	0.430000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3516.00	0.430000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3367.00	0.320000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3463.00	0.320000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3897.00	0.220000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3995.00	0.110000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
3946.00	0.000000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	4020
1356.21	45.980000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1277.74	43.240000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1473.91	41.480000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1199.28	41.130000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1238.51	39.900000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1316.98	39.200000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1513.15	30.230000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1591.62	30.230000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1630.85	26.890000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1081.57	25.950000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1552.38	24.780000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
650.00	24.260000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
963.87	23.030000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
689.23	22.680000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1003.11	22.500000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1042.34	21.800000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
728.47	20.920000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
924.64	18.980000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
767.70	17.580000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
806.94	17.090000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1748.55	16.350000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1866.26	15.820000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1905.49	14.550000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2101.66	14.240000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2023.19	13.890000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2062.43	11.780000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1787.79	11.250000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1827.02	9.840000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2140.89	6.150000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2180.13	5.480000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2337.06	4.390000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2297.83	3.870000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2376.30	3.340000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2454.77	2.950000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
2415.53	1.760000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	2487
1417.00	39.430000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1167.00	37.910000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1452.00	35.930000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1276.00	35.780000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1521.00	35.780000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1132.00	33.490000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1203.00	32.280000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1487.00	30.600000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1658.00	30.140000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1239.00	29.990000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1692.00	22.990000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
682.00	20.250000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
922.00	20.100000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1760.00	19.640000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1896.00	18.880000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
957.00	18.730000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
715.00	18.570000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1930.00	17.510000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1726.00	17.200000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
749.00	16.440000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
887.00	16.140000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
992.00	15.530000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1965.00	14.620000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
647.00	14.160000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1998.00	11.570000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2133.00	8.070000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2166.00	7.310000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2200.00	5.480000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2234.00	4.260000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2438.00	2.890000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2267.00	2.590000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2505.00	1.370000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2471.00	1.070000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
2404.00	0.760000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	2497
1300.00	31.080000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1369.00	25.480000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1127.00	25.020000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1335.00	24.550000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1195.00	22.070000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1231.00	21.910000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1503.00	21.760000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1161.00	21.130000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1402.00	20.820000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1435.00	20.820000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1469.00	20.200000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1056.00	19.270000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1091.00	18.180000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1636.00	18.180000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1536.00	17.560000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1020.00	16.470000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1569.00	16.160000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
985.00	15.380000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
951.00	14.450000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1669.00	12.590000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1702.00	11.810000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1804.00	11.030000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1771.00	10.880000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1737.00	9.320000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1872.00	8.240000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1974.00	7.150000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1838.00	6.060000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
1905.00	5.900000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2041.00	5.590000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2007.00	4.660000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2140.00	4.660000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2074.00	4.200000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2107.00	4.200000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2207.00	3.570000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2240.00	3.570000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2173.00	3.420000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2308.00	3.420000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2443.00	2.180000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2409.00	2.020000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2375.00	1.860000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2476.00	1.860000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2510.00	1.710000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2341.00	1.550000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2577.00	1.400000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2644.00	1.400000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2543.00	1.240000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2747.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2781.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2815.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2849.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2678.00	0.780000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2713.00	0.780000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2916.00	0.470000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2882.00	0.160000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	4000
2628.00	2.320000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2661.00	2.010000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2594.00	1.700000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2996.00	1.700000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3129.00	1.390000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2695.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2896.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3096.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3431.00	1.080000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3464.00	1.080000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2795.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3062.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3163.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3196.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3229.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3296.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3733.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4204.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2729.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3029.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3531.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2829.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2863.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2963.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3498.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3633.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3666.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3397.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3565.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3766.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3834.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3901.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4002.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4103.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4306.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
2762.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3363.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3699.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3867.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3968.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4136.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4238.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3330.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4036.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
4170.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4441.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4475.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
3800.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4069.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4340.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4374.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4408.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4509.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4543.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
4577.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	4784
1575.00	42.530000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1605.00	37.500000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1419.00	30.030000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1451.00	29.220000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1483.00	28.570000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1636.00	26.460000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1514.00	25.330000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1322.00	25.160000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1696.00	24.350000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1387.00	23.860000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1727.00	23.220000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1758.00	21.920000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1790.00	21.590000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1354.00	20.460000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1289.00	20.290000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1666.00	20.130000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1821.00	19.480000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1884.00	18.670000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1257.00	18.340000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1192.00	18.180000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1916.00	16.880000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1095.00	15.580000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1030.00	15.260000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
930.00	15.100000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1128.00	15.100000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1160.00	14.450000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1062.00	13.960000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2333.00	13.640000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
997.00	12.990000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1947.00	12.340000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2010.00	11.040000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2074.00	10.390000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
1978.00	10.070000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2235.00	9.580000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
963.00	9.420000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2365.00	8.280000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2527.00	8.280000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2301.00	8.120000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2430.00	7.950000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2397.00	7.790000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2268.00	7.310000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2107.00	6.820000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2042.00	6.490000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2203.00	6.490000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2463.00	6.010000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2558.00	5.190000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2139.00	4.220000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2622.00	4.060000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2653.00	4.060000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2716.00	2.440000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2748.00	1.950000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2590.00	1.790000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
2685.00	1.460000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	2809
692.00	13.590000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
836.00	12.580000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
801.00	10.840000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
765.00	10.560000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
728.00	9.980000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1127.00	9.400000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1091.00	9.110000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1166.00	8.390000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1201.00	6.070000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1239.00	6.070000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1495.00	5.490000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1532.00	4.340000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2307.00	3.760000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1568.00	3.470000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1604.00	3.040000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1865.00	2.750000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2419.00	2.750000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2382.00	2.600000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2051.00	2.170000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2346.00	2.170000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1902.00	2.020000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1939.00	2.020000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2455.00	2.020000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2861.00	1.880000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2715.00	1.590000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2789.00	1.590000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2753.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2825.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3118.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
1977.00	1.010000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
2013.00	1.010000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3190.00	1.010000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3154.00	0.720000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3521.00	0.580000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3225.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3265.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3558.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3596.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3629.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018
3668.00	0.290000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	4018

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
543.00	33.340000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
580.00	32.570000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
505.00	28.570000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
617.00	26.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
691.00	22.290000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
656.00	21.720000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
766.00	17.720000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
730.00	15.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
802.00	14.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
840.00	13.520000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1023.00	10.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
913.00	9.720000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1207.00	9.720000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1096.00	9.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1355.00	9.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1170.00	9.140000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1282.00	8.950000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1060.00	8.760000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1134.00	8.760000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1242.00	8.760000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
877.00	7.430000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1317.00	7.430000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
951.00	7.050000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1392.00	7.050000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1730.00	5.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1431.00	4.950000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2358.00	4.190000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1879.00	4.000000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1470.00	3.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2066.00	3.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2396.00	3.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2320.00	3.050000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1805.00	2.670000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1953.00	2.670000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2213.00	2.670000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1768.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2503.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2538.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2578.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1844.00	2.290000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2650.00	2.290000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1991.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2140.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2175.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2687.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2468.00	1.900000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
1918.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2029.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2250.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2722.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2758.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2431.00	1.520000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2613.00	1.520000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2102.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2794.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
2833.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	3901
634.00	27.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
599.00	27.240000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
709.00	21.460000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
671.00	19.220000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
781.00	17.540000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
744.00	17.350000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
890.00	16.230000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
854.00	15.490000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1183.00	13.620000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1073.00	12.870000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
927.00	11.750000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
818.00	11.200000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1110.00	10.820000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1219.00	10.640000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
999.00	10.450000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1292.00	10.260000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
963.00	9.700000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1330.00	9.700000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1035.00	9.520000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1259.00	8.580000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1367.00	7.090000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1402.00	6.720000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1440.00	6.160000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2452.00	6.160000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1547.00	5.410000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1475.00	5.220000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1584.00	5.220000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1511.00	4.850000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2560.00	4.290000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2164.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2487.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2524.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1621.00	3.730000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1911.00	3.730000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2380.00	3.730000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1877.00	3.170000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2201.00	3.170000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2344.00	3.170000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2019.00	2.990000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2275.00	2.990000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
1983.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2056.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2595.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2740.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2236.00	2.610000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2307.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2668.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2777.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
1947.00	2.240000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2093.00	2.240000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2128.00	1.870000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2706.00	1.870000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2631.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2883.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2919.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2812.00	1.490000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2849.00	1.490000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
2957.00	1.310000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	4271
591.24	78.669240	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
554.97	77.934013	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
518.70	59.553350	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
627.51	56.612444	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
663.78	51.282051	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
700.05	38.967007	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
772.59	34.371841	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
808.86	31.982355	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
736.32	27.570995	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
990.21	23.159636	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
917.67	22.975829	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
845.13	22.424409	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
953.94	21.137763	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1026.48	20.034923	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
881.40	18.748277	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1099.02	17.829244	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1316.64	16.542597	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1135.29	15.991177	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1171.56	15.807371	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1244.10	14.336918	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1207.83	14.153111	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1280.37	14.153111	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1389.18	11.947431	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1352.91	11.212205	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1497.99	10.109365	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1461.72	8.822719	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1425.45	8.271299	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1534.26	7.536072	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1788.15	4.778973	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1896.96	4.411359	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1860.69	3.859939	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1969.50	3.676133	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2404.74	3.676133	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2477.28	3.676133	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1933.23	3.492326	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2005.77	3.308519	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
1824.42	3.124713	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2368.47	3.124713	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2259.66	2.940906	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2767.44	2.940906	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2694.90	2.757099	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2586.09	2.573293	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2731.17	2.573293	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2078.31	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2441.01	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2513.55	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2622.36	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2150.85	2.205680	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2658.63	2.205680	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2042.04	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2295.93	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2549.82	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2114.58	1.838066	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2223.39	1.470453	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2187.12	1.286646	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
2803.71	1.102840	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	3993
598.00	53.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
631.00	51.320000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
700.00	42.420000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
666.00	38.320000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1317.00	37.290000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1352.00	36.270000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1417.00	32.160000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1386.00	31.820000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
938.00	28.740000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1009.00	28.740000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
974.00	26.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1652.00	26.000000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1043.00	25.660000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1719.00	25.660000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1686.00	22.240000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2048.00	15.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
1751.00	14.710000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2080.00	12.660000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2015.00	11.630000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2378.00	10.950000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2114.00	8.900000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2345.00	6.160000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2711.00	5.470000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2412.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2445.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2744.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2779.00	3.420000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3044.00	3.420000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3441.00	2.390000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3473.00	2.390000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3742.00	2.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3776.00	2.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3140.00	1.710000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3406.00	1.710000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
2810.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3074.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3810.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3841.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
4109.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4174.00	1.030000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4141.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4206.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4766.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4797.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4866.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3108.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
3509.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4437.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4469.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4502.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
4831.00	0.000000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	4810
724.00	28.700000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
858.00	27.590000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
689.00	24.240000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
655.00	23.970000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
823.00	21.460000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1185.00	19.790000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
758.00	18.950000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
924.00	17.830000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1252.00	17.830000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1087.00	17.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1216.00	17.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
556.00	16.720000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
891.00	16.720000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1152.00	16.720000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
956.00	16.440000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1054.00	16.440000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1651.00	16.160000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1119.00	15.880000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
790.00	15.050000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
623.00	14.490000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
987.00	14.210000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1684.00	14.210000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1022.00	13.100000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1718.00	12.260000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1783.00	11.370000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
588.00	8.640000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
1749.00	6.130000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
2343.00	5.290000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
2375.00	4.740000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
2408.00	4.740000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
2472.00	4.350000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
2441.00	4.180000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3060.00	2.790000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3844.00	2.230000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3093.00	1.950000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3811.00	1.950000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3160.00	1.390000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
4424.00	1.390000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3877.00	1.340000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
3125.00	1.110000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3192.00	1.000000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
4488.00	0.840000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3746.00	0.560000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
3778.00	0.560000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
4551.00	0.330000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
4455.00	0.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
4521.00	0.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	4808
580.00	36.330000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
516.00	31.630000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
549.00	31.420000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
709.00	26.500000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
612.00	25.430000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1224.00	25.010000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
678.00	24.370000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
646.00	22.230000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
741.00	22.230000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1189.00	22.230000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1125.00	21.590000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
867.00	20.730000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1617.00	20.300000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1649.00	20.090000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1030.00	19.660000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1684.00	19.660000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
772.00	18.590000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1092.00	18.590000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1158.00	18.590000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
804.00	17.740000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
898.00	17.530000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
834.00	16.460000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1748.00	16.160000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
963.00	15.180000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1718.00	14.960000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
995.00	14.530000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
931.00	13.040000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1063.00	13.040000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
2339.00	9.400000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
2307.00	7.910000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
2405.00	5.130000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
2371.00	4.490000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
2435.00	3.850000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3059.00	2.350000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3028.00	1.920000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3772.00	1.920000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3157.00	1.800000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3124.00	1.710000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3740.00	1.280000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3803.00	1.280000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3092.00	1.070000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3833.00	1.030000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
3707.00	0.850000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
4462.00	0.640000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
4401.00	0.430000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
4432.00	0.210000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
4368.00	0.000000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
4494.00	0.000000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	4728
1508.00	46.690000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1544.00	40.160000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1330.00	35.930000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1147.00	35.540000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
640.00	35.350000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1111.00	34.780000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1578.00	34.200000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1686.00	34.200000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1291.00	34.010000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1614.00	33.050000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1721.00	32.280000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
604.00	31.510000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1437.00	30.930000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1218.00	29.970000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
567.00	29.590000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1401.00	29.010000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1183.00	28.630000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1795.00	28.240000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1364.00	27.860000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1830.00	27.860000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
673.00	27.470000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1473.00	27.280000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1757.00	26.710000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
928.00	24.210000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
745.00	22.670000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1075.00	22.670000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1868.00	22.670000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
856.00	22.480000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1038.00	21.520000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
708.00	20.940000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
818.00	20.750000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
781.00	20.560000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1900.00	20.370000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
963.00	19.790000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
531.00	18.830000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1938.00	17.290000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1974.00	16.520000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
1001.00	15.180000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2191.00	8.450000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2228.00	6.920000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2296.00	5.760000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2262.00	5.190000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2512.00	3.460000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2548.00	3.070000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2618.00	3.070000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2583.00	2.880000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2866.00	2.690000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927
2901.00	2.110000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
2831.00	1.730000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	2927

Problem 2b.2

```
april.data <- subset(isit, Month==4)
kable(april.data)
```

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
517	28.73000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
582	27.90000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
547	23.44000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
614	18.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1068	12.38000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1005	11.23000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1036	11.06000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1100	10.57000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1490	8.92000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1520	7.26000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1550	6.60000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1587	6.44000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
1972	4.29000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2003	3.80000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2034	3.63000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2068	2.81000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2444	2.48000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2504	1.98000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2477	1.32000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
2536	1.32000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3722	0.83000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3446	0.66000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3630	0.66000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3660	0.66000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3939	0.66000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3414	0.50000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3505	0.50000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3534	0.50000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3912	0.50000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3568	0.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3600	0.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3697	0.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3853	0.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3880	0.33000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3474	0.17000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3789	0.17000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3758	0.00000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
3818	0.00000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
501	21.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
927	12.88000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
865	12.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth	S
898	11.64000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
955	11.47000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1319	10.23000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1380	9.17000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1412	8.82000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1352	7.94000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1799	6.00000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1767	4.59000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1828	3.88000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
2300	3.71000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
1857	3.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
2243	2.47000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
2212	2.29000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
2267	2.29000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3333	1.41000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3277	1.06000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3394	1.06000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3362	0.88000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3164	0.71000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3187	0.71000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3249	0.71000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3541	0.71000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3423	0.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3623	0.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3857	0.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3888	0.53000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3448	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3480	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3509	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3658	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3716	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3743	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3771	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3916	0.35000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3219	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3303	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3565	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3686	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3798	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3832	0.18000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
3595	0.00000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981	
516	24.43000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
550	22.41000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
591	20.07000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1053	12.14000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1020	11.05000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1090	10.74000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1125	9.65000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1555	8.25000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1588	7.00000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1626	6.85000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
1662	4.82000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth	S
2131	2.49000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2169	2.49000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2202	2.49000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2097	1.87000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2625	1.87000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2656	1.71000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2726	1.09000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3965	1.09000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3750	0.62000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3790	0.62000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3927	0.62000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
2692	0.47000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3890	0.47000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3856	0.31000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3716	0.16000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
3824	0.16000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977	
559	27.56000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740	
634	27.56000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740	
522	26.45000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740	
596	24.52000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740	
670	17.73000	4	1	49.8358	-11.4977	179.313	-18.224	4	2001	740	
526	26.83000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
561	25.66000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
633	23.01715	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
596	20.67000	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
671	20.08503	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
708	19.64521	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
742	16.12667	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
773	14.36739	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
811	12.46152	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
845	12.31491	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
882	12.02170	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	
919	11.87509	5	2	49.8842	-11.6330	169.599	-13.067	4	2001	1035	

Problem 2b.3

```
depths <- subset(isit, SampleDepth>2000)
kable(depths)
```

SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth	S
14	2003.00	3.800000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
15	2034.00	3.630000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
16	2068.00	2.810000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
17	2444.00	2.480000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
18	2504.00	1.980000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
19	2477.00	1.320000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
20	2536.00	1.320000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
21	3722.00	0.830000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
22	3446.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
23	3630.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
24	3660.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
25	3939.00	0.660000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
26	3414.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
27	3505.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
28	3534.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
29	3912.00	0.500000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
30	3568.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
31	3600.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
32	3697.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
33	3853.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
34	3880.00	0.330000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
35	3474.00	0.170000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
36	3789.00	0.170000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
37	3758.00	0.000000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
38	3818.00	0.000000	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	
51	2300.00	3.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
53	2243.00	2.470000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
54	2212.00	2.290000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
55	2267.00	2.290000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
56	3333.00	1.410000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
57	3277.00	1.060000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
58	3394.00	1.060000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
59	3362.00	0.880000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
60	3164.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
61	3187.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
62	3249.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
63	3541.00	0.710000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
64	3423.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
65	3623.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
66	3857.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
67	3888.00	0.530000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
68	3448.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
69	3480.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
70	3509.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
71	3658.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
72	3716.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
73	3743.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
74	3771.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
75	3916.00	0.350000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
76	3219.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
77	3303.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
78	3565.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
79	3686.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
80	3798.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
81	3832.00	0.180000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
82	3595.00	0.000000	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	
94	2131.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
95	2169.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
96	2202.00	2.490000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
97	2097.00	1.870000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
98	2625.00	1.870000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
99	2656.00	1.710000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
100	2726.00	1.090000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
101	3965.00	1.090000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
102	3750.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
103	3790.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
104	3927.00	0.620000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
105	2692.00	0.470000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
106	3890.00	0.470000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
107	3856.00	0.310000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
108	3716.00	0.160000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
109	3824.00	0.160000	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	
139	2386.00	2.150000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
140	2289.00	1.940000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
141	2335.00	1.830000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
142	2435.00	1.610000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
143	2828.00	1.400000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
144	2875.00	0.750000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
145	2975.00	0.750000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
146	2927.00	0.650000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
147	3415.00	0.430000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
148	3516.00	0.430000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
149	3367.00	0.320000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
150	3463.00	0.320000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
151	3897.00	0.220000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
152	3995.00	0.110000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
153	3946.00	0.000000	6	2	49.2672	-13.4825	37.488	-81.453	8	2001	
177	2101.66	14.240000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
178	2023.19	13.890000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
179	2062.43	11.780000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
182	2140.89	6.150000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
183	2180.13	5.480000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
184	2337.06	4.390000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
185	2297.83	3.870000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
186	2376.30	3.340000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
187	2454.77	2.950000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
188	2415.53	1.760000	7	3	49.8517	-13.0368	68.996	-16.446	8	2001	
214	2133.00	8.070000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
215	2166.00	7.310000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
216	2200.00	5.480000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
217	2234.00	4.260000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
218	2438.00	2.890000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
219	2267.00	2.590000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
220	2505.00	1.370000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
221	2471.00	1.070000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
222	2404.00	0.760000	8	2	49.8515	-13.0470	68.280	-16.446	8	2001	
251	2041.00	5.590000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
252	2007.00	4.660000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
253	2140.00	4.660000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
254	2074.00	4.200000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
255	2107.00	4.200000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
256	2207.00	3.570000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
257	2240.00	3.570000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
258	2173.00	3.420000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
259	2308.00	3.420000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
260	2443.00	2.180000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
261	2409.00	2.020000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
262	2375.00	1.860000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
263	2476.00	1.860000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
264	2510.00	1.710000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
265	2341.00	1.550000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
266	2577.00	1.400000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
267	2644.00	1.400000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
268	2543.00	1.240000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
269	2747.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
270	2781.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
271	2815.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
272	2849.00	0.930000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
273	2678.00	0.780000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
274	2713.00	0.780000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
275	2916.00	0.470000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
276	2882.00	0.160000	9	3	49.5022	-13.7062	21.216	-55.339	8	2001	
277	2628.00	2.320000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
278	2661.00	2.010000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
279	2594.00	1.700000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
280	2996.00	1.700000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
281	3129.00	1.390000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
282	2695.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
283	2896.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
284	3096.00	1.230000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
285	3431.00	1.080000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
286	3464.00	1.080000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
287	2795.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
288	3062.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
289	3163.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
290	3196.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
291	3229.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
292	3296.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
293	3733.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
294	4204.00	0.930000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
295	2729.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
296	3029.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
297	3531.00	0.770000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
298	2829.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
299	2863.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
300	2963.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
301	3498.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
302	3633.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
303	3666.00	0.620000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
304	3397.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
305	3565.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
306	3766.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
307	3834.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
308	3901.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
309	4002.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
310	4103.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
311	4306.00	0.460000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
312	2762.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
313	3363.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
314	3699.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
315	3867.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
316	3968.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
317	4136.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
318	4238.00	0.310000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
319	3330.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
320	4036.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
321	4170.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
322	4441.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
323	4475.00	0.150000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
324	3800.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
325	4069.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
326	4340.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
327	4374.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
328	4408.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
329	4509.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
330	4543.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
331	4577.00	0.000000	10	3	48.5665	-15.0018	-73.681	-159.238	8	2001	
359	2333.00	13.640000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
362	2010.00	11.040000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
363	2074.00	10.390000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
365	2235.00	9.580000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
367	2365.00	8.280000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
368	2527.00	8.280000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
369	2301.00	8.120000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
370	2430.00	7.950000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
371	2397.00	7.790000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
372	2268.00	7.310000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
373	2107.00	6.820000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
374	2042.00	6.490000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
375	2203.00	6.490000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
376	2463.00	6.010000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
377	2558.00	5.190000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
378	2139.00	4.220000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
379	2622.00	4.060000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
380	2653.00	4.060000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
381	2716.00	2.440000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
382	2748.00	1.950000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
383	2590.00	1.790000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
384	2685.00	1.460000	11	2	50.0005	-13.3845	43.927	0.111	8	2001	
397	2307.00	3.760000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
401	2419.00	2.750000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
402	2382.00	2.600000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
403	2051.00	2.170000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
404	2346.00	2.170000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
407	2455.00	2.020000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
408	2861.00	1.880000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
409	2715.00	1.590000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
410	2789.00	1.590000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
411	2753.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
412	2825.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
413	3118.00	1.300000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
415	2013.00	1.010000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
416	3190.00	1.010000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
417	3154.00	0.720000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
418	3521.00	0.580000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
419	3225.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
420	3265.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
421	3558.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
422	3596.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
423	3629.00	0.430000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
424	3668.00	0.290000	12	1	49.7510	-13.9447	3.949	-27.669	3	2002	
451	2358.00	4.190000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
454	2066.00	3.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
455	2396.00	3.240000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
456	2320.00	3.050000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
459	2213.00	2.670000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
461	2503.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
462	2538.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
463	2578.00	2.480000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
465	2650.00	2.290000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
467	2140.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
468	2175.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
469	2687.00	2.100000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
470	2468.00	1.900000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
472	2029.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
473	2250.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
474	2722.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
475	2758.00	1.710000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
476	2431.00	1.520000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
477	2613.00	1.520000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
478	2102.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
479	2794.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
480	2833.00	1.330000	13	2	49.8567	-13.9620	2.722	-15.890	3	2002	
504	2452.00	6.160000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
509	2560.00	4.290000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
510	2164.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
511	2487.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
512	2524.00	3.920000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
515	2380.00	3.730000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
517	2201.00	3.170000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
518	2344.00	3.170000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
519	2019.00	2.990000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
520	2275.00	2.990000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
522	2056.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
523	2595.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
524	2740.00	2.800000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
525	2236.00	2.610000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
526	2307.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
527	2668.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
528	2777.00	2.430000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
530	2093.00	2.240000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
531	2128.00	1.870000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
532	2706.00	1.870000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
533	2631.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
534	2883.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
535	2919.00	1.680000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
536	2812.00	1.490000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
537	2849.00	1.490000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
538	2957.00	1.310000	14	2	49.5550	-14.1833	-13.192	-49.449	3	2002	
571	2404.74	3.676133	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
572	2477.28	3.676133	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
574	2005.77	3.308519	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
576	2368.47	3.124713	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
577	2259.66	2.940906	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
578	2767.44	2.940906	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
579	2694.90	2.757099	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
580	2586.09	2.573293	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
581	2731.17	2.573293	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
582	2078.31	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
583	2441.01	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
584	2513.55	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
585	2622.36	2.389486	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
586	2150.85	2.205680	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
587	2658.63	2.205680	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
588	2042.04	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
589	2295.93	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
590	2549.82	2.021873	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
591	2114.58	1.838066	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
592	2223.39	1.470453	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
593	2187.12	1.286646	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
594	2803.71	1.102840	15	2	49.8070	-14.0643	-4.590	-21.447	3	2002	
610	2048.00	15.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
612	2080.00	12.660000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
613	2015.00	11.630000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
614	2378.00	10.950000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
615	2114.00	8.900000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
616	2345.00	6.160000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
617	2711.00	5.470000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
618	2412.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
619	2445.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
620	2744.00	4.110000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
621	2779.00	3.420000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
622	3044.00	3.420000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
623	3441.00	2.390000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
624	3473.00	2.390000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
625	3742.00	2.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
626	3776.00	2.050000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
627	3140.00	1.710000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
628	3406.00	1.710000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
629	2810.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
630	3074.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomI
631	3810.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
632	3841.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
633	4109.00	1.370000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
634	4174.00	1.030000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
635	4141.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
636	4206.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
637	4766.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
638	4797.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
639	4866.00	0.680000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
640	3108.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
641	3509.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
642	4437.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
643	4469.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
644	4502.00	0.340000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
645	4831.00	0.000000	16	1	49.0322	-16.1493	-156.562	-107.566	10	2002	
673	2343.00	5.290000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
674	2375.00	4.740000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
675	2408.00	4.740000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
676	2472.00	4.350000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
677	2441.00	4.180000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
678	3060.00	2.790000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
679	3844.00	2.230000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
680	3093.00	1.950000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
681	3811.00	1.950000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
682	3160.00	1.390000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
683	4424.00	1.390000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
684	3877.00	1.340000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
685	3125.00	1.110000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
686	3192.00	1.000000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
687	4488.00	0.840000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
688	3746.00	0.560000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
689	3778.00	0.560000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
690	4551.00	0.330000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
691	4455.00	0.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
692	4521.00	0.280000	17	2	48.7772	-16.4845	-181.965	-135.902	10	2002	
721	2339.00	9.400000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
722	2307.00	7.910000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
723	2405.00	5.130000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
724	2371.00	4.490000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
725	2435.00	3.850000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
726	3059.00	2.350000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
727	3028.00	1.920000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
728	3772.00	1.920000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
729	3157.00	1.800000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
730	3124.00	1.710000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
731	3740.00	1.280000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
732	3803.00	1.280000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
733	3092.00	1.070000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
734	3833.00	1.030000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
735	3707.00	0.850000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
736	4462.00	0.640000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
737	4401.00	0.430000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomD
738	4432.00	0.210000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
739	4368.00	0.000000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
740	4494.00	0.000000	18	3	49.4647	-15.5700	-113.383	-59.450	10	2002	
779	2191.00	8.450000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
780	2228.00	6.920000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
781	2296.00	5.760000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
782	2262.00	5.190000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
783	2512.00	3.460000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
784	2548.00	3.070000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
785	2618.00	3.070000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
786	2583.00	2.880000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
787	2866.00	2.690000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
788	2901.00	2.110000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	
789	2831.00	1.730000	19	2	49.7792	-13.6275	26.693	-24.558	10	2002	

Problem 2c

```
april.data.2002 <- subset(depths, Month==4)
kable(april.data.2002)
```

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
14	2003	3.80	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
15	2034	3.63	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
16	2068	2.81	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
17	2444	2.48	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
18	2504	1.98	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
19	2477	1.32	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
20	2536	1.32	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
21	3722	0.83	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
22	3446	0.66	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
23	3630	0.66	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
24	3660	0.66	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
25	3939	0.66	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
26	3414	0.50	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
27	3505	0.50	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
28	3534	0.50	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
29	3912	0.50	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
30	3568	0.33	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
31	3600	0.33	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
32	3697	0.33	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
33	3853	0.33	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
34	3880	0.33	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
35	3474	0.17	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
36	3789	0.17	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
37	3758	0.00	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
38	3818	0.00	1	3	50.1508	-14.4792	-34.106	16.779	4	2001	3939
51	2300	3.71	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
53	2243	2.47	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
54	2212	2.29	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981

	SampleDepth	Sources	Station	Time	Latitude	Longitude	Xkm	Ykm	Month	Year	BottomDepth
55	2267	2.29	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
56	3333	1.41	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
57	3277	1.06	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
58	3394	1.06	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
59	3362	0.88	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
60	3164	0.71	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
61	3187	0.71	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
62	3249	0.71	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
63	3541	0.71	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
64	3423	0.53	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
65	3623	0.53	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
66	3857	0.53	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
67	3888	0.53	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
68	3448	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
69	3480	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
70	3509	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
71	3658	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
72	3716	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
73	3743	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
74	3771	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
75	3916	0.35	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
76	3219	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
77	3303	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
78	3565	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
79	3686	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
80	3798	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
81	3832	0.18	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
82	3595	0.00	2	3	50.0910	-14.4665	-33.294	10.112	4	2001	3981
94	2131	2.49	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
95	2169	2.49	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
96	2202	2.49	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
97	2097	1.87	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
98	2625	1.87	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
99	2656	1.71	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
100	2726	1.09	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
101	3965	1.09	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
102	3750	0.62	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
103	3790	0.62	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
104	3927	0.62	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
105	2692	0.47	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
106	3890	0.47	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
107	3856	0.31	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
108	3716	0.16	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
109	3824	0.16	3	1	50.1337	-14.4992	-35.543	14.890	4	2001	3977
““											