

## Code & Output

Code:

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# Julia Cuellar
# DSC 630
# Final project

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import statsmodels.api as sm
from statsmodels.formula.api import ols

# Display quake data
def read_file():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    print('Data:\n', quake)

# Display described and length of quake data
def des_len():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    print('Described quake data:\n', quake.describe())
    print('Length of quake data:\n', len(quake))

# Check the nulls from quake file
def check_null():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    print("Display quake data with null:\n", quake.isnull())
    print("Display counts of null from quake data:\n", quake.isnull().sum())

# Display pair plot of quake data
def showPair_Quake():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    sns.pairplot(quake)
    plt.suptitle('Pair plot of quakes')
    plt.show()

# Display boxplot of latitude
def showBox_Lat():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
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sns.boxplot(x="lat", data=quake)
plt.title('Latitude')
plt.show()

# Display boxplot of longitude
def showBox_Long():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    sns.boxplot(x="long", data=quake)
    plt.title('Longitude')
    plt.show()

# Display boxplot of depth
def showBox_Depth():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    sns.boxplot(x="depth", data=quake)
    plt.title('Depth')
    plt.show()

# Display boxplot of mag
def showBox_Mag():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    sns.boxplot(x="mag", data=quake)
    plt.title('Magnitude')
    plt.show()

# Display boxplot of stations
def showBox_Station():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    sns.boxplot(x="stations", data=quake)
    plt.title('Stations')
    plt.show()

# Create a multiple linear regression model for latitude versus longitude
def reg_model_1():
    quake = pd.read_csv('quakes.csv')
    quake.rename(columns={'Unnamed: 0': 'num'}, inplace=True)
    quake.drop(['num'], axis=1, inplace=True)
    fit = ols('lat ~ C(long)', data=quake).fit()
    print("Multiple linear regression model for latitude versus\nlongitude:\n", fit.summary())
    res = fit.resid
    fig = sm.qqplot(res, fit=True, line="45")
    plt.title('Latitude & Longitude of an Earthquake')
    plt.show()

```

```
if __name__ == "__main__":  
    read_file()  
    des_len()  
    check_null()  
    showPair_Quake()  
    showBox_Lat()  
    showBox_Long()  
    showBox_Depth()  
    showBox_Mag()  
    showBox_Station()  
    reg_model_1()
```

Output:

Data:

	lat	long	depth	mag	stations
0	-20.42	181.62	562	4.8	41
1	-20.62	181.03	650	4.2	15
2	-26.00	184.10	42	5.4	43
3	-17.97	181.66	626	4.1	19
4	-20.42	181.96	649	4.0	11
..	...	...	...	...	...
995	-25.93	179.54	470	4.4	22
996	-12.28	167.06	248	4.7	35
997	-20.13	184.20	244	4.5	34
998	-17.40	187.80	40	4.5	14
999	-21.59	170.56	165	6.0	119

[1000 rows x 5 columns]

Described quake data:

	lat	long	depth	mag	stations
count	1000.000000	1000.000000	1000.000000	1000.000000	1000.000000
mean	-20.642750	179.462020	311.371000	4.620400	33.418000
std	5.028791	6.069497	215.535498	0.402773	21.900386
min	-38.590000	165.670000	40.000000	4.000000	10.000000
25%	-23.470000	179.620000	99.000000	4.300000	18.000000
50%	-20.300000	181.410000	247.000000	4.600000	27.000000
75%	-17.637500	183.200000	543.000000	4.900000	42.000000
max	-10.720000	188.130000	680.000000	6.400000	132.000000

Length of quake data:

1000

Display quake data with null:

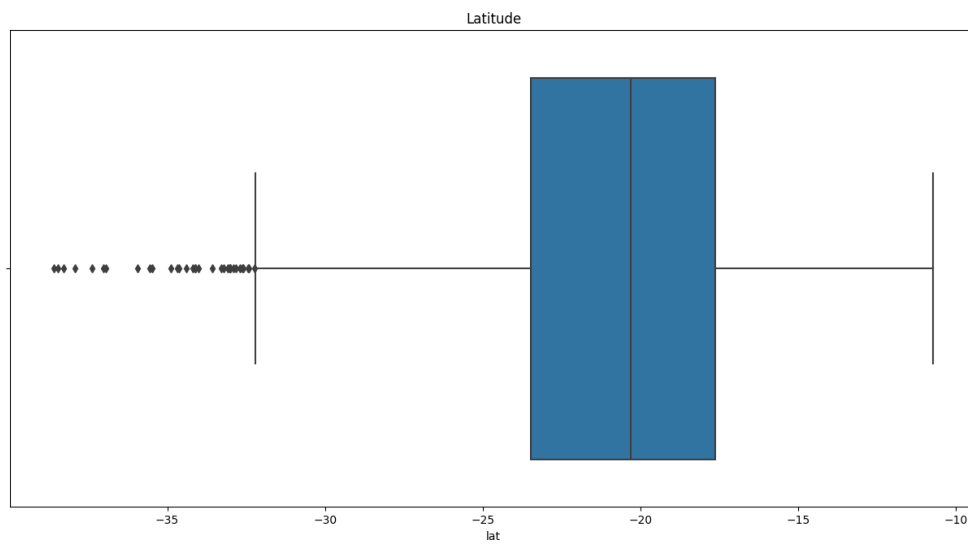
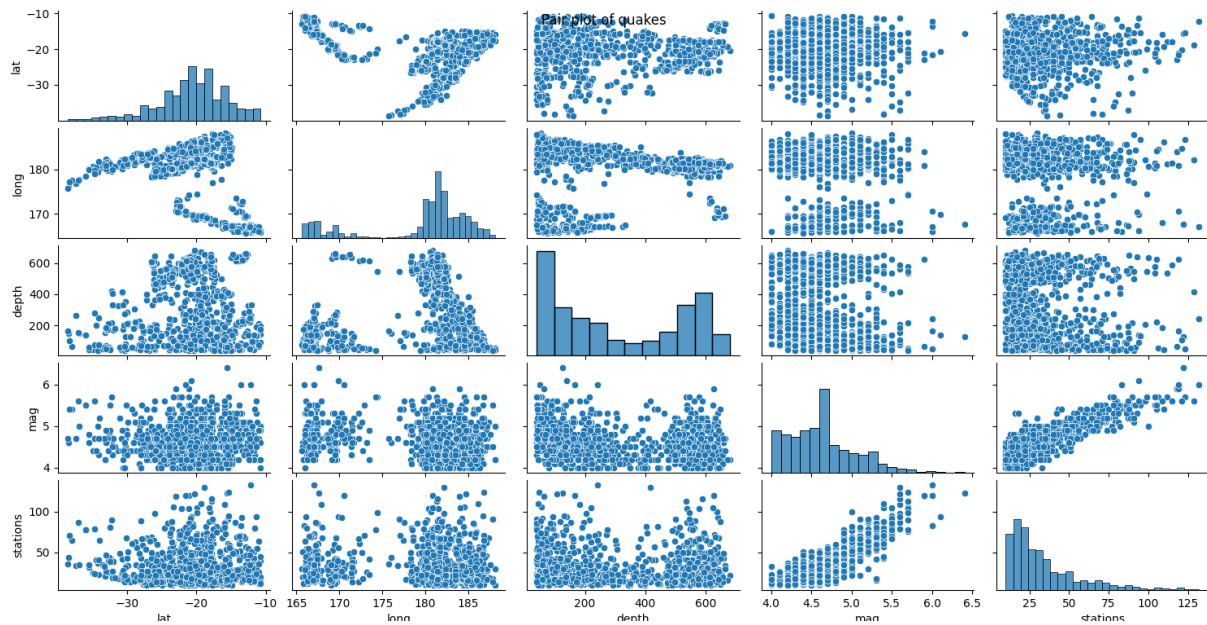
	lat	long	depth	mag	stations
0	False	False	False	False	False
1	False	False	False	False	False
2	False	False	False	False	False
3	False	False	False	False	False
4	False	False	False	False	False
..	...	...	...	...	...
995	False	False	False	False	False
996	False	False	False	False	False
997	False	False	False	False	False
998	False	False	False	False	False
999	False	False	False	False	False

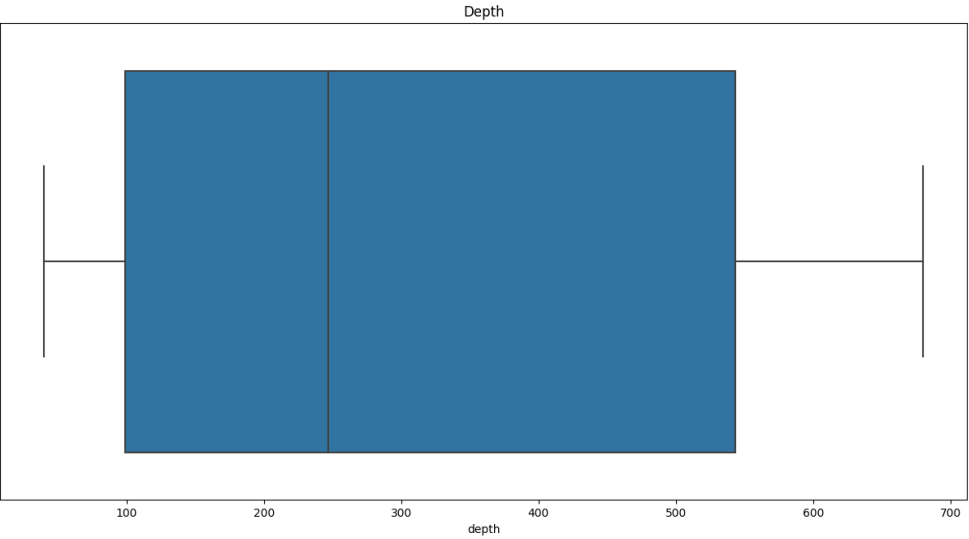
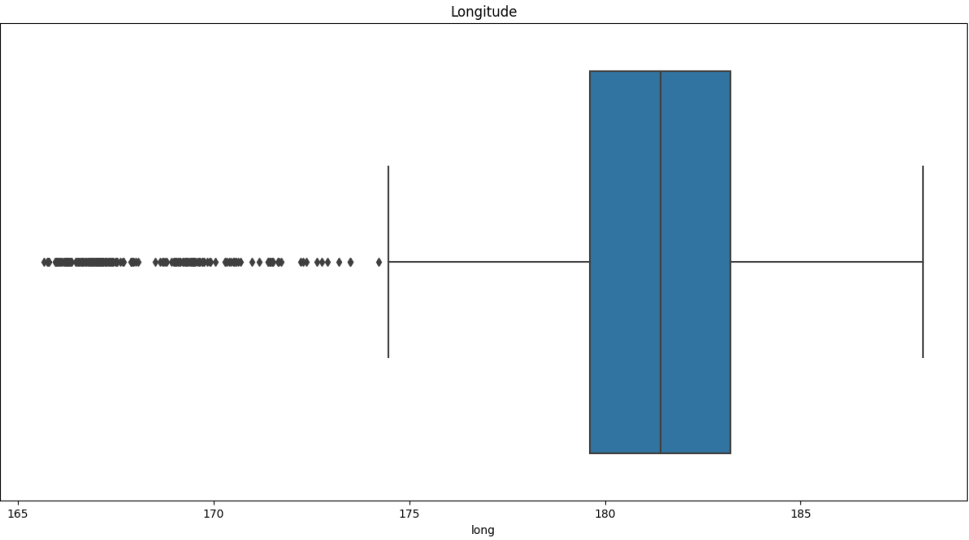
[1000 rows x 5 columns]

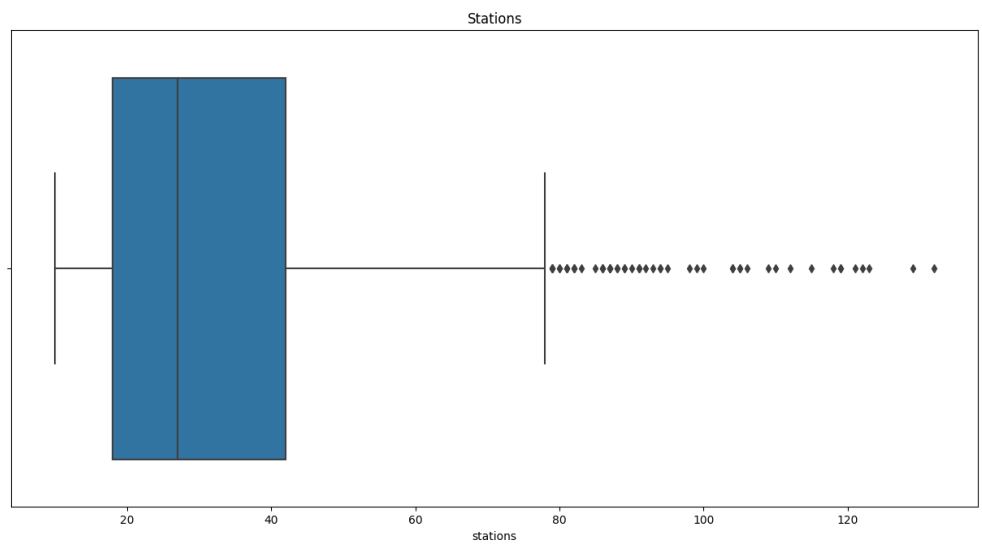
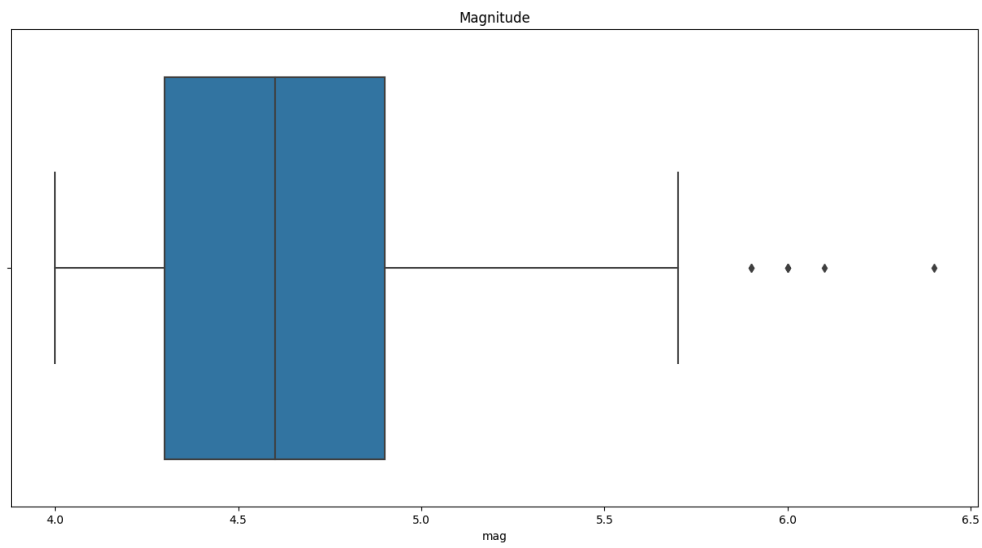
Display counts of null from quake data:

lat	0
long	0
depth	0
mag	0
stations	0

dtype: int64







Multiple linear regression model for latitude versus longitude:

### OLS Regression Results

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Dep. Variable:	lat	R-squared:	0.785
Model:	OLS	Adj. R-squared:	0.457
Method:	Least Squares	F-statistic:	2.390



Date: Wed, 02 Jun 2021 Prob (F-statistic): 4.22e-20  
Time: 17:16:33 Log-Likelihood: -2264.6  
No. Observations: 1000 AIC: 5739.  
Df Residuals: 395 BIC: 8708.  
Df Model: 604  
Covariance Type: nonrobust

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	coef	std err	t	P> t	[0.025	0.975]
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Intercept	-12.8500	3.707	-3.467	0.001	-20.137	-5.563
C(long)[T.165.76]	0.7700	5.242	0.147	0.883	-9.536	11.076
C(long)[T.165.77]	2.0700	5.242	0.395	0.693	-8.236	12.376
C(long)[T.165.8]	1.5500	4.540	0.341	0.733	-7.375	10.475
C(long)[T.165.96]	0.1500	4.540	0.033	0.974	-8.775	9.075
C(long)[T.165.97]	1.8900	5.242	0.361	0.719	-8.416	12.196
C(long)[T.165.98]	1.0400	5.242	0.198	0.843	-9.266	11.346
C(long)[T.165.99]	2.1300	5.242	0.406	0.685	-8.176	12.436
C(long)[T.166.0]	-1.8500	5.242	-0.353	0.724	-12.156	8.456
C(long)[T.166.01]	-1.2500	5.242	-0.238	0.812	-11.556	9.056
C(long)[T.166.02]	1.1800	5.242	0.225	0.822	-9.126	11.486
C(long)[T.166.06]	2.0600	5.242	0.393	0.695	-8.246	12.366
C(long)[T.166.07]	1.2750	4.540	0.281	0.779	-7.650	10.200
C(long)[T.166.1]	1.6100	4.540	0.355	0.723	-7.315	10.535
C(long)[T.166.14]	1.2200	5.242	0.233	0.816	-9.086	11.526
C(long)[T.166.18]	1.3100	5.242	0.250	0.803	-8.996	11.616
C(long)[T.166.2]	0.5533	4.280	0.129	0.897	-7.861	8.968
C(long)[T.166.22]	1.3600	5.242	0.259	0.795	-8.946	11.666
C(long)[T.166.24]	1.4750	4.540	0.325	0.745	-7.450	10.400

C(long)[T.166.26]	1.8800	5.242	0.359	0.720	-8.426	12.186
C(long)[T.166.28]	0.1300	5.242	0.025	0.980	-10.176	10.436
C(long)[T.166.29]	0.8400	5.242	0.160	0.873	-9.466	11.146
C(long)[T.166.3]	1.1500	5.242	0.219	0.826	-9.156	11.456
C(long)[T.166.32]	1.4750	4.540	0.325	0.745	-7.450	10.400
C(long)[T.166.36]	0.9800	4.540	0.216	0.829	-7.945	9.905
C(long)[T.166.37]	0.1900	5.242	0.036	0.971	-10.116	10.496
C(long)[T.166.47]	1.2100	5.242	0.231	0.818	-9.096	11.516
C(long)[T.166.49]	-0.7100	5.242	-0.135	0.892	-11.016	9.596
C(long)[T.166.53]	-0.7700	4.540	-0.170	0.865	-9.695	8.155
C(long)[T.166.54]	-0.8100	5.242	-0.155	0.877	-11.116	9.496
C(long)[T.166.55]	1.4800	5.242	0.282	0.778	-8.826	11.786
C(long)[T.166.56]	-0.9400	5.242	-0.179	0.858	-11.246	9.366
C(long)[T.166.6]	0.6000	5.242	0.114	0.909	-9.706	10.906
C(long)[T.166.62]	-2.2300	5.242	-0.425	0.671	-12.536	8.076
C(long)[T.166.64]	-1.2700	5.242	-0.242	0.809	-11.576	9.036
C(long)[T.166.66]	0.0200	4.540	0.004	0.996	-8.905	8.945
C(long)[T.166.69]	-3.1100	5.242	-0.593	0.553	-13.416	7.196
C(long)[T.166.72]	0.2800	5.242	0.053	0.957	-10.026	10.586
C(long)[T.166.74]	-3.4700	5.242	-0.662	0.508	-13.776	6.836
C(long)[T.166.75]	-0.8500	5.242	-0.162	0.871	-11.156	9.456
C(long)[T.166.78]	0.0100	5.242	0.002	0.998	-10.296	10.316
C(long)[T.166.8]	-3.3500	5.242	-0.639	0.523	-13.656	6.956
C(long)[T.166.83]	-2.9400	5.242	-0.561	0.575	-13.246	7.366
C(long)[T.166.85]	-3.0100	5.242	-0.574	0.566	-13.316	7.296
C(long)[T.166.87]	-0.2200	5.242	-0.042	0.967	-10.526	10.086
C(long)[T.166.9]	-1.4950	4.540	-0.329	0.742	-10.420	7.430
C(long)[T.166.91]	-2.8600	5.242	-0.546	0.586	-13.166	7.446

C(long)[T.166.93]	0.4800	5.242	0.092	0.927	-9.826	10.786
C(long)[T.166.94]	-3.4300	5.242	-0.654	0.513	-13.736	6.876
C(long)[T.166.97]	-1.8000	5.242	-0.343	0.731	-12.106	8.506
C(long)[T.166.98]	-3.0100	5.242	-0.574	0.566	-13.316	7.296
C(long)[T.167.0]	0.5900	5.242	0.113	0.910	-9.716	10.896
C(long)[T.167.01]	-0.5000	4.280	-0.117	0.907	-8.914	7.914
C(long)[T.167.02]	0.6200	5.242	0.118	0.906	-9.686	10.926
C(long)[T.167.03]	0.6900	5.242	0.132	0.895	-9.616	10.996
C(long)[T.167.05]	1.4700	5.242	0.280	0.779	-8.836	11.776
C(long)[T.167.06]	0.2667	4.280	0.062	0.950	-8.148	8.681
C(long)[T.167.1]	-1.3975	4.144	-0.337	0.736	-9.545	6.750
C(long)[T.167.11]	0.2800	5.242	0.053	0.957	-10.026	10.586
C(long)[T.167.14]	-0.6200	5.242	-0.118	0.906	-10.926	9.686
C(long)[T.167.15]	-0.7700	5.242	-0.147	0.883	-11.076	9.536
C(long)[T.167.16]	-2.0300	4.540	-0.447	0.655	-10.955	6.895
C(long)[T.167.18]	-1.8200	4.540	-0.401	0.689	-10.745	7.105
C(long)[T.167.23]	-2.3300	5.242	-0.444	0.657	-12.636	7.976
C(long)[T.167.24]	-1.5325	4.144	-0.370	0.712	-9.680	6.615
C(long)[T.167.25]	-3.2500	5.242	-0.620	0.536	-13.556	7.056
C(long)[T.167.26]	-1.5400	4.280	-0.360	0.719	-9.954	6.874
C(long)[T.167.32]	-1.9025	4.144	-0.459	0.646	-10.050	6.245
C(long)[T.167.33]	-1.4700	5.242	-0.280	0.779	-11.776	8.836
C(long)[T.167.34]	-3.1000	5.242	-0.591	0.555	-13.406	7.206
C(long)[T.167.38]	-2.5800	5.242	-0.492	0.623	-12.886	7.726
C(long)[T.167.39]	0.8000	5.242	0.153	0.879	-9.506	11.106
C(long)[T.167.4]	-1.7500	5.242	-0.334	0.739	-12.056	8.556
C(long)[T.167.41]	0.5800	5.242	0.111	0.912	-9.726	10.886
C(long)[T.167.42]	-3.0500	5.242	-0.582	0.561	-13.356	7.256

C(long)[T.167.43]	0.5100	5.242	0.097	0.923	-9.796	10.816
C(long)[T.167.44]	-2.9300	5.242	-0.559	0.577	-13.236	7.376
C(long)[T.167.5]	-2.7600	5.242	-0.527	0.599	-13.066	7.546
C(long)[T.167.51]	-2.1900	4.540	-0.482	0.630	-11.115	6.735
C(long)[T.167.53]	-2.6300	5.242	-0.502	0.616	-12.936	7.676
C(long)[T.167.54]	-3.6000	5.242	-0.687	0.493	-13.906	6.706
C(long)[T.167.62]	-2.7100	5.242	-0.517	0.605	-13.016	7.596
C(long)[T.167.68]	-2.6900	5.242	-0.513	0.608	-12.996	7.616
C(long)[T.167.7]	-4.1100	5.242	-0.784	0.433	-14.416	6.196
C(long)[T.167.89]	-5.0800	5.242	-0.969	0.333	-15.386	5.226
C(long)[T.167.91]	-3.2300	4.540	-0.712	0.477	-12.155	5.695
C(long)[T.167.95]	-3.2650	4.540	-0.719	0.472	-12.190	5.660
C(long)[T.168.02]	-3.3900	5.242	-0.647	0.518	-13.696	6.916
C(long)[T.168.08]	-3.4600	5.242	-0.660	0.510	-13.766	6.846
C(long)[T.168.52]	-5.1200	5.242	-0.977	0.329	-15.426	5.186
C(long)[T.168.63]	-4.5300	5.242	-0.864	0.388	-14.836	5.776
C(long)[T.168.69]	-7.2100	5.242	-1.375	0.170	-17.516	3.096
C(long)[T.168.71]	-7.4800	5.242	-1.427	0.154	-17.786	2.826
C(long)[T.168.75]	-7.2400	5.242	-1.381	0.168	-17.546	3.066
C(long)[T.168.8]	-5.8800	5.242	-1.122	0.263	-16.186	4.426
C(long)[T.168.93]	-5.6900	5.242	-1.085	0.278	-15.996	4.616
C(long)[T.168.98]	-5.9050	4.540	-1.301	0.194	-14.830	3.020
C(long)[T.169.01]	-6.2100	5.242	-1.185	0.237	-16.516	4.096
C(long)[T.169.04]	-5.6400	5.242	-1.076	0.283	-15.946	4.666
C(long)[T.169.05]	-5.7100	5.242	-1.089	0.277	-16.016	4.596
C(long)[T.169.09]	-0.1000	5.242	-0.019	0.985	-10.406	10.206
C(long)[T.169.1]	-5.8400	5.242	-1.114	0.266	-16.146	4.466
C(long)[T.169.14]	-7.2200	5.242	-1.377	0.169	-17.526	3.086

C(long)[T.169.15]	-6.6200	5.242	-1.263	0.207	-16.926	3.686
C(long)[T.169.21]	-5.9500	5.242	-1.135	0.257	-16.256	4.356
C(long)[T.169.23]	-5.8800	5.242	-1.122	0.263	-16.186	4.426
C(long)[T.169.24]	-5.9200	5.242	-1.129	0.259	-16.226	4.386
C(long)[T.169.28]	-0.2400	5.242	-0.046	0.964	-10.546	10.066
C(long)[T.169.31]	-5.7100	5.242	-1.089	0.277	-16.016	4.596
C(long)[T.169.32]	-5.7900	5.242	-1.105	0.270	-16.096	4.516
C(long)[T.169.33]	-6.1500	4.540	-1.355	0.176	-15.075	2.775
C(long)[T.169.37]	-6.0700	5.242	-1.158	0.248	-16.376	4.236
C(long)[T.169.41]	-6.3800	5.242	-1.217	0.224	-16.686	3.926
C(long)[T.169.42]	-6.0400	5.242	-1.152	0.250	-16.346	4.266
C(long)[T.169.44]	-6.1200	5.242	-1.168	0.244	-16.426	4.186
C(long)[T.169.46]	-2.9350	4.540	-0.647	0.518	-11.860	5.990
C(long)[T.169.48]	-6.0750	4.540	-1.338	0.182	-15.000	2.850
C(long)[T.169.49]	-7.3900	5.242	-1.410	0.159	-17.696	2.916
C(long)[T.169.5]	-6.5450	4.540	-1.442	0.150	-15.470	2.380
C(long)[T.169.52]	-0.0800	5.242	-0.015	0.988	-10.386	10.226
C(long)[T.169.53]	-6.3200	5.242	-1.206	0.229	-16.626	3.986
C(long)[T.169.58]	-0.2000	5.242	-0.038	0.970	-10.506	10.106
C(long)[T.169.63]	-3.1650	4.540	-0.697	0.486	-12.090	5.760
C(long)[T.169.66]	-7.7900	5.242	-1.486	0.138	-18.096	2.516
C(long)[T.169.71]	-6.3900	4.540	-1.408	0.160	-15.315	2.535
C(long)[T.169.75]	-8.6700	5.242	-1.654	0.099	-18.976	1.636
C(long)[T.169.76]	-7.6300	5.242	-1.456	0.146	-17.936	2.676
C(long)[T.169.84]	-8.0500	5.242	-1.536	0.125	-18.356	2.256
C(long)[T.169.9]	-8.7500	5.242	-1.669	0.096	-19.056	1.556
C(long)[T.169.92]	-7.8500	5.242	-1.498	0.135	-18.156	2.456
C(long)[T.170.04]	-8.5000	5.242	-1.622	0.106	-18.806	1.806

C(long)[T.170.3]	-5.2250	4.540	-1.151	0.250	-14.150	3.700
C(long)[T.170.34]	-1.4300	5.242	-0.273	0.785	-11.736	8.876
C(long)[T.170.4]	-9.6500	5.242	-1.841	0.066	-19.956	0.656
C(long)[T.170.45]	-8.5900	5.242	-1.639	0.102	-18.896	1.716
C(long)[T.170.5]	-8.6500	5.242	-1.650	0.100	-18.956	1.656
C(long)[T.170.52]	-8.6800	5.242	-1.656	0.099	-18.986	1.626
C(long)[T.170.56]	-9.4200	4.540	-2.075	0.039	-18.345	-0.495
C(long)[T.170.62]	-0.9900	5.242	-0.189	0.850	-11.296	9.316
C(long)[T.170.7]	-10.1500	5.242	-1.936	0.054	-20.456	0.156
C(long)[T.170.99]	-9.9000	5.242	-1.889	0.060	-20.206	0.406
C(long)[T.171.17]	-1.9700	5.242	-0.376	0.707	-12.276	8.336
C(long)[T.171.39]	-2.1400	5.242	-0.408	0.683	-12.446	8.166
C(long)[T.171.4]	-9.4550	4.540	-2.083	0.038	-18.380	-0.530
C(long)[T.171.44]	-9.4100	5.242	-1.795	0.073	-19.716	0.896
C(long)[T.171.46]	-9.4800	5.242	-1.808	0.071	-19.786	0.826
C(long)[T.171.5]	-9.5200	5.242	-1.816	0.070	-19.826	0.786
C(long)[T.171.51]	-9.4800	5.242	-1.808	0.071	-19.786	0.826
C(long)[T.171.52]	-9.4900	5.242	-1.810	0.071	-19.796	0.816
C(long)[T.171.65]	-9.5100	5.242	-1.814	0.070	-19.816	0.796
C(long)[T.171.66]	-9.4800	5.242	-1.808	0.071	-19.786	0.826
C(long)[T.171.72]	-10.0200	5.242	-1.912	0.057	-20.326	0.286
C(long)[T.172.23]	-0.8100	5.242	-0.155	0.877	-11.116	9.496
C(long)[T.172.29]	-0.6200	5.242	-0.118	0.906	-10.926	9.686
C(long)[T.172.38]	-0.9700	5.242	-0.185	0.853	-11.276	9.336
C(long)[T.172.65]	-10.0200	5.242	-1.912	0.057	-20.326	0.286
C(long)[T.172.76]	-0.5100	5.242	-0.097	0.923	-10.816	9.796
C(long)[T.172.91]	-9.6900	5.242	-1.849	0.065	-19.996	0.616
C(long)[T.173.2]	-9.9000	5.242	-1.889	0.060	-20.206	0.406

C(long)[T.173.49]	-8.4200	5.242	-1.606	0.109	-18.726	1.886
C(long)[T.173.5]	-1.4600	5.242	-0.279	0.781	-11.766	8.846
C(long)[T.174.21]	-8.2900	5.242	-1.581	0.115	-18.596	2.016
C(long)[T.174.46]	-7.0400	5.242	-1.343	0.180	-17.346	3.266
C(long)[T.175.7]	-25.7400	5.242	-4.910	0.000	-36.046	-15.434
C(long)[T.176.03]	-25.6100	5.242	-4.886	0.000	-35.916	-15.304
C(long)[T.176.78]	-24.5200	5.242	-4.678	0.000	-34.826	-14.214
C(long)[T.177.01]	-4.7900	5.242	-0.914	0.361	-15.096	5.516
C(long)[T.177.1]	-25.4300	5.242	-4.851	0.000	-35.736	-15.124
C(long)[T.177.47]	-25.0800	5.242	-4.784	0.000	-35.386	-14.774
C(long)[T.177.52]	-24.1800	5.242	-4.613	0.000	-34.486	-13.874
C(long)[T.177.77]	-3.6000	5.242	-0.687	0.493	-13.906	6.706
C(long)[T.177.81]	-24.1000	5.242	-4.598	0.000	-34.406	-13.794
C(long)[T.178.29]	-13.6500	5.242	-2.604	0.010	-23.956	-3.344
C(long)[T.178.3]	-13.4700	4.540	-2.967	0.003	-22.395	-4.545
C(long)[T.178.31]	-13.2800	5.242	-2.533	0.012	-23.586	-2.974
C(long)[T.178.35]	-13.3500	5.242	-2.547	0.011	-23.656	-3.044
C(long)[T.178.4]	-11.7200	5.242	-2.236	0.026	-22.026	-1.414
C(long)[T.178.41]	-13.3500	5.242	-2.547	0.011	-23.656	-3.044
C(long)[T.178.42]	-12.2900	5.242	-2.345	0.020	-22.596	-1.984
C(long)[T.178.43]	-13.1500	5.242	-2.509	0.013	-23.456	-2.844
C(long)[T.178.47]	-13.3100	5.242	-2.539	0.011	-23.616	-3.004
C(long)[T.178.52]	-23.0900	5.242	-4.405	0.000	-33.396	-12.784
C(long)[T.178.57]	-13.6800	5.242	-2.610	0.009	-23.986	-3.374
C(long)[T.178.59]	-13.3300	5.242	-2.543	0.011	-23.636	-3.024
C(long)[T.178.9]	-7.0500	5.242	-1.345	0.179	-17.356	3.256
C(long)[T.178.98]	-11.5400	5.242	-2.201	0.028	-21.846	-1.234
C(long)[T.179.02]	-11.3300	5.242	-2.161	0.031	-21.636	-1.024

C(long)[T.179.07]	-10.6400	5.242	-2.030	0.043	-20.946	-0.334
C(long)[T.179.1]	-21.7800	5.242	-4.155	0.000	-32.086	-11.474
C(long)[T.179.15]	-10.2600	5.242	-1.957	0.051	-20.566	0.046
C(long)[T.179.2]	-11.3500	5.242	-2.165	0.031	-21.656	-1.044
C(long)[T.179.22]	-11.9300	5.242	-2.276	0.023	-22.236	-1.624
C(long)[T.179.24]	-9.7300	5.242	-1.856	0.064	-20.036	0.576
C(long)[T.179.27]	-10.4600	5.242	-1.995	0.047	-20.766	-0.154
C(long)[T.179.33]	-12.9700	5.242	-2.474	0.014	-23.276	-2.664
C(long)[T.179.36]	-10.9600	5.242	-2.091	0.037	-21.266	-0.654
C(long)[T.179.43]	-21.3500	5.242	-4.073	0.000	-31.656	-11.044
C(long)[T.179.5]	-12.2700	4.540	-2.703	0.007	-21.195	-3.345
C(long)[T.179.52]	-11.4900	5.242	-2.192	0.029	-21.796	-1.184
C(long)[T.179.54]	-12.6000	4.540	-2.776	0.006	-21.525	-3.675
C(long)[T.179.59]	-4.6200	5.242	-0.881	0.379	-14.926	5.686
C(long)[T.179.6]	-9.9900	4.540	-2.201	0.028	-18.915	-1.065
C(long)[T.179.61]	-19.3500	5.242	-3.691	0.000	-29.656	-9.044
C(long)[T.179.62]	-9.2000	4.540	-2.027	0.043	-18.125	-0.275
C(long)[T.179.67]	-12.0400	5.242	-2.297	0.022	-22.346	-1.734
C(long)[T.179.68]	-11.2400	5.242	-2.144	0.033	-21.546	-0.934
C(long)[T.179.69]	-12.4600	5.242	-2.377	0.018	-22.766	-2.154
C(long)[T.179.7]	-10.4500	5.242	-1.994	0.047	-20.756	-0.144
C(long)[T.179.71]	-9.2500	5.242	-1.765	0.078	-19.556	1.056
C(long)[T.179.77]	-9.1800	5.242	-1.751	0.081	-19.486	1.126
C(long)[T.179.78]	-10.6500	5.242	-2.032	0.043	-20.956	-0.344
C(long)[T.179.79]	-13.3300	5.242	-2.543	0.011	-23.636	-3.024
C(long)[T.179.8]	-19.9700	5.242	-3.810	0.000	-30.276	-9.664
C(long)[T.179.82]	-16.9750	4.540	-3.739	0.000	-25.900	-8.050
C(long)[T.179.84]	-12.1900	5.242	-2.325	0.021	-22.496	-1.884



C(long)[T.179.85]	-11.7050	4.540	-2.578	0.010	-20.630	-2.780
C(long)[T.179.86]	-12.3900	4.540	-2.729	0.007	-21.315	-3.465
C(long)[T.179.87]	-12.1100	5.242	-2.310	0.021	-22.416	-1.804
C(long)[T.179.88]	-11.4200	5.242	-2.179	0.030	-21.726	-1.114
C(long)[T.179.89]	-10.9400	5.242	-2.087	0.038	-21.246	-0.634
C(long)[T.179.9]	-15.9800	4.144	-3.856	0.000	-24.127	-7.833
C(long)[T.179.91]	-11.1200	5.242	-2.121	0.035	-21.426	-0.814
C(long)[T.179.92]	-11.7200	5.242	-2.236	0.026	-22.026	-1.414
C(long)[T.179.93]	-10.6900	5.242	-2.039	0.042	-20.996	-0.384
C(long)[T.179.95]	-10.6200	5.242	-2.026	0.043	-20.926	-0.314
C(long)[T.179.96]	-10.7900	5.242	-2.058	0.040	-21.096	-0.484
C(long)[T.179.97]	-11.0100	4.540	-2.425	0.016	-19.935	-2.085
C(long)[T.179.98]	-11.7450	4.540	-2.587	0.010	-20.670	-2.820
C(long)[T.179.99]	-10.8167	4.280	-2.527	0.012	-19.231	-2.402
C(long)[T.180.0]	-12.6150	4.004	-3.151	0.002	-20.486	-4.744
C(long)[T.180.01]	-10.5100	5.242	-2.005	0.046	-20.816	-0.204
C(long)[T.180.02]	-12.7400	5.242	-2.430	0.016	-23.046	-2.434
C(long)[T.180.03]	-11.5600	5.242	-2.205	0.028	-21.866	-1.254
C(long)[T.180.04]	-10.6900	5.242	-2.039	0.042	-20.996	-0.384
C(long)[T.180.05]	-13.2100	5.242	-2.520	0.012	-23.516	-2.904
C(long)[T.180.06]	-10.6400	5.242	-2.030	0.043	-20.946	-0.334
C(long)[T.180.08]	-11.2700	5.242	-2.150	0.032	-21.576	-0.964
C(long)[T.180.09]	-10.7900	4.540	-2.377	0.018	-19.715	-1.865
C(long)[T.180.1]	-15.0300	4.540	-3.311	0.001	-23.955	-6.105
C(long)[T.180.11]	-10.6100	5.242	-2.024	0.044	-20.916	-0.304
C(long)[T.180.12]	-10.2500	5.242	-1.955	0.051	-20.556	0.056
C(long)[T.180.13]	-13.1500	4.280	-3.072	0.002	-21.564	-4.736
C(long)[T.180.15]	-11.7400	4.540	-2.586	0.010	-20.665	-2.815

C(long)[T.180.16]	-10.6850	4.540	-2.354	0.019	-19.610	-1.760
C(long)[T.180.17]	-10.6700	4.540	-2.350	0.019	-19.595	-1.745
C(long)[T.180.18]	-10.7800	4.540	-2.375	0.018	-19.705	-1.855
C(long)[T.180.2]	-20.7533	4.280	-4.849	0.000	-29.168	-12.339
C(long)[T.180.21]	-13.3575	4.144	-3.223	0.001	-21.505	-5.210
C(long)[T.180.22]	-11.6450	4.540	-2.565	0.011	-20.570	-2.720
C(long)[T.180.23]	-10.6900	4.280	-2.498	0.013	-19.104	-2.276
C(long)[T.180.24]	-10.6200	5.242	-2.026	0.043	-20.926	-0.314
C(long)[T.180.26]	-11.4200	4.280	-2.668	0.008	-19.834	-3.006
C(long)[T.180.27]	-10.7300	4.540	-2.364	0.019	-19.655	-1.805
C(long)[T.180.28]	-8.1000	4.540	-1.784	0.075	-17.025	0.825
C(long)[T.180.3]	-9.4933	4.280	-2.218	0.027	-17.908	-1.079
C(long)[T.180.31]	-10.3550	4.540	-2.281	0.023	-19.280	-1.430
C(long)[T.180.34]	-12.8300	5.242	-2.448	0.015	-23.136	-2.524
C(long)[T.180.38]	-9.9533	4.280	-2.326	0.021	-18.368	-1.539
C(long)[T.180.39]	-9.0300	5.242	-1.723	0.086	-19.336	1.276
C(long)[T.180.4]	-9.2250	4.540	-2.032	0.043	-18.150	-0.300
C(long)[T.180.47]	-9.2100	5.242	-1.757	0.080	-19.516	1.096
C(long)[T.180.48]	-9.3800	5.242	-1.789	0.074	-19.686	0.926
C(long)[T.180.49]	-9.2900	4.540	-2.046	0.041	-18.215	-0.365
C(long)[T.180.5]	-11.8100	4.280	-2.759	0.006	-20.224	-3.396
C(long)[T.180.52]	-9.1500	5.242	-1.746	0.082	-19.456	1.156
C(long)[T.180.53]	-9.1500	5.242	-1.746	0.082	-19.456	1.156
C(long)[T.180.54]	-9.2900	4.540	-2.046	0.041	-18.215	-0.365
C(long)[T.180.57]	-19.0900	5.242	-3.642	0.000	-29.396	-8.784
C(long)[T.180.58]	-7.8733	4.280	-1.840	0.067	-16.288	0.541
C(long)[T.180.6]	-13.3550	4.004	-3.336	0.001	-21.226	-5.484
C(long)[T.180.62]	-11.2900	4.540	-2.487	0.013	-20.215	-2.365

C(long)[T.180.63]	-7.0800	4.540	-1.560	0.120	-16.005	1.845
C(long)[T.180.64]	-9.5400	4.540	-2.101	0.036	-18.465	-0.615
C(long)[T.180.67]	-8.7100	4.540	-1.919	0.056	-17.635	0.215
C(long)[T.180.68]	-8.5400	5.242	-1.629	0.104	-18.846	1.766
C(long)[T.180.69]	-8.5350	4.540	-1.880	0.061	-17.460	0.390
C(long)[T.180.7]	-6.5600	4.540	-1.445	0.149	-15.485	2.365
C(long)[T.180.74]	-8.5500	5.242	-1.631	0.104	-18.856	1.756
C(long)[T.180.77]	-8.7800	5.242	-1.675	0.095	-19.086	1.526
C(long)[T.180.78]	-8.3650	4.540	-1.843	0.066	-17.290	0.560
C(long)[T.180.79]	-3.6100	5.242	-0.689	0.491	-13.916	6.696
C(long)[T.180.8]	-16.5075	4.144	-3.983	0.000	-24.655	-8.360
C(long)[T.180.81]	-10.0900	4.540	-2.223	0.027	-19.015	-1.165
C(long)[T.180.82]	-8.4500	5.242	-1.612	0.108	-18.756	1.856
C(long)[T.180.84]	-8.4600	5.242	-1.614	0.107	-18.766	1.846
C(long)[T.180.85]	-8.3350	4.540	-1.836	0.067	-17.260	0.590
C(long)[T.180.86]	-6.7950	4.540	-1.497	0.135	-15.720	2.130
C(long)[T.180.87]	-5.3250	4.540	-1.173	0.242	-14.250	3.600
C(long)[T.180.88]	-7.4700	5.242	-1.425	0.155	-17.776	2.836
C(long)[T.180.89]	-9.0000	5.242	-1.717	0.087	-19.306	1.306
C(long)[T.180.9]	-13.2700	4.144	-3.202	0.001	-21.417	-5.123
C(long)[T.180.92]	-9.4767	4.280	-2.214	0.027	-17.891	-1.062
C(long)[T.180.94]	-13.1400	4.280	-3.070	0.002	-21.554	-4.726
C(long)[T.180.96]	-4.6200	5.242	-0.881	0.379	-14.926	5.686
C(long)[T.180.97]	-12.1900	5.242	-2.325	0.021	-22.496	-1.884
C(long)[T.180.98]	-8.1767	4.280	-1.910	0.057	-16.591	0.238
C(long)[T.180.99]	-10.9900	5.242	-2.097	0.037	-21.296	-0.684
C(long)[T.181.0]	-9.3850	4.540	-2.067	0.039	-18.310	-0.460
C(long)[T.181.01]	-7.9800	5.242	-1.522	0.129	-18.286	2.326

C(long)[T.181.02]	-7.1000	4.280	-1.659	0.098	-15.514	1.314
C(long)[T.181.03]	-6.1200	4.540	-1.348	0.178	-15.045	2.805
C(long)[T.181.04]	-5.5900	5.242	-1.066	0.287	-15.896	4.716
C(long)[T.181.06]	-8.1950	4.540	-1.805	0.072	-17.120	0.730
C(long)[T.181.09]	-6.5600	4.540	-1.445	0.149	-15.485	2.365
C(long)[T.181.11]	-11.7833	4.280	-2.753	0.006	-20.198	-3.369
C(long)[T.181.13]	-8.2200	5.242	-1.568	0.118	-18.526	2.086
C(long)[T.181.15]	-18.3800	4.540	-4.049	0.000	-27.305	-9.455
C(long)[T.181.16]	-10.9867	4.280	-2.567	0.011	-19.401	-2.572
C(long)[T.181.17]	-12.4300	5.242	-2.371	0.018	-22.736	-2.124
C(long)[T.181.18]	-4.8600	5.242	-0.927	0.354	-15.166	5.446
C(long)[T.181.19]	-7.5100	5.242	-1.433	0.153	-17.816	2.796
C(long)[T.181.2]	-10.2950	3.931	-2.619	0.009	-18.024	-2.566
C(long)[T.181.21]	-19.5700	5.242	-3.733	0.000	-29.876	-9.264
C(long)[T.181.22]	-4.2000	5.242	-0.801	0.423	-14.506	6.106
C(long)[T.181.23]	-4.7800	4.540	-1.053	0.293	-13.705	4.145
C(long)[T.181.24]	-6.8850	4.540	-1.517	0.130	-15.810	2.040
C(long)[T.181.25]	-6.4650	4.540	-1.424	0.155	-15.390	2.460
C(long)[T.181.26]	-8.0900	5.242	-1.543	0.124	-18.396	2.216
C(long)[T.181.27]	-4.9700	5.242	-0.948	0.344	-15.276	5.336
C(long)[T.181.28]	-6.9250	4.540	-1.525	0.128	-15.850	2.000
C(long)[T.181.3]	-10.2300	4.004	-2.555	0.011	-18.101	-2.359
C(long)[T.181.31]	-4.8700	4.540	-1.073	0.284	-13.795	4.055
C(long)[T.181.32]	-5.5750	4.144	-1.345	0.179	-13.722	2.572
C(long)[T.181.33]	-6.1550	4.540	-1.356	0.176	-15.080	2.770
C(long)[T.181.35]	-4.9500	5.242	-0.944	0.346	-15.256	5.356
C(long)[T.181.36]	-4.8300	5.242	-0.921	0.357	-15.136	5.476
C(long)[T.181.37]	-7.5500	4.540	-1.663	0.097	-16.475	1.375

C(long)[T.181.38]	-6.9400	4.280	-1.621	0.106	-15.354	1.474
C(long)[T.181.39]	-8.6150	4.540	-1.898	0.058	-17.540	0.310
C(long)[T.181.4]	-7.8225	3.931	-1.990	0.047	-15.552	-0.093
C(long)[T.181.41]	-7.4100	4.004	-1.851	0.065	-15.281	0.461
C(long)[T.181.42]	-5.6120	4.060	-1.382	0.168	-13.595	2.371
C(long)[T.181.43]	-17.0600	5.242	-3.255	0.001	-27.366	-6.754
C(long)[T.181.44]	-5.0000	5.242	-0.954	0.341	-15.306	5.306
C(long)[T.181.47]	-6.5750	4.540	-1.448	0.148	-15.500	2.350
C(long)[T.181.48]	-5.0567	4.280	-1.181	0.238	-13.471	3.358
C(long)[T.181.49]	-5.2300	4.280	-1.222	0.222	-13.644	3.184
C(long)[T.181.5]	-7.6288	3.931	-1.940	0.053	-15.358	0.100
C(long)[T.181.51]	-6.8120	4.060	-1.678	0.094	-14.795	1.171
C(long)[T.181.52]	-5.2800	5.242	-1.007	0.314	-15.586	5.026
C(long)[T.181.53]	-6.4100	4.540	-1.412	0.159	-15.335	2.515
C(long)[T.181.54]	-6.6500	4.540	-1.465	0.144	-15.575	2.275
C(long)[T.181.55]	-7.8400	5.242	-1.496	0.136	-18.146	2.466
C(long)[T.181.57]	-5.9025	4.144	-1.424	0.155	-14.050	2.245
C(long)[T.181.58]	-6.6950	4.144	-1.616	0.107	-14.842	1.452
C(long)[T.181.59]	-8.2480	4.060	-2.031	0.043	-16.231	-0.265
C(long)[T.181.6]	-14.6380	4.060	-3.605	0.000	-22.621	-6.655
C(long)[T.181.61]	-6.4550	4.540	-1.422	0.156	-15.380	2.470
C(long)[T.181.62]	-6.2800	4.144	-1.515	0.130	-14.427	1.867
C(long)[T.181.63]	-9.3000	4.280	-2.173	0.030	-17.714	-0.886
C(long)[T.181.65]	-5.1600	4.540	-1.137	0.256	-14.085	3.765
C(long)[T.181.66]	-9.2350	4.144	-2.228	0.026	-17.382	-1.088
C(long)[T.181.67]	-6.6150	4.540	-1.457	0.146	-15.540	2.310
C(long)[T.181.69]	-7.8400	4.280	-1.832	0.068	-16.254	0.574
C(long)[T.181.7]	-12.6117	4.004	-3.150	0.002	-20.483	-4.741

C(long)[T.181.71]	-8.7300	4.144	-2.107	0.036	-16.877	-0.583
C(long)[T.181.72]	-6.6850	4.540	-1.473	0.142	-15.610	2.240
C(long)[T.181.73]	-5.1000	5.242	-0.973	0.331	-15.406	5.206
C(long)[T.181.74]	-9.5967	4.280	-2.242	0.026	-18.011	-1.182
C(long)[T.181.75]	-11.2267	4.280	-2.623	0.009	-19.641	-2.812
C(long)[T.181.77]	-5.5500	5.242	-1.059	0.290	-15.856	4.756
C(long)[T.181.8]	-21.2500	5.242	-4.054	0.000	-31.556	-10.944
C(long)[T.181.82]	-4.9600	5.242	-0.946	0.345	-15.266	5.346
C(long)[T.181.83]	-4.9700	5.242	-0.948	0.344	-15.276	5.336
C(long)[T.181.84]	-5.1900	5.242	-0.990	0.323	-15.496	5.116
C(long)[T.181.85]	-7.3000	4.540	-1.608	0.109	-16.225	1.625
C(long)[T.181.86]	-7.5700	5.242	-1.444	0.149	-17.876	2.736
C(long)[T.181.87]	-6.9700	4.540	-1.535	0.125	-15.895	1.955
C(long)[T.181.88]	-5.2700	5.242	-1.005	0.315	-15.576	5.036
C(long)[T.181.89]	-5.0800	5.242	-0.969	0.333	-15.386	5.226
C(long)[T.181.9]	-7.6400	4.060	-1.882	0.061	-15.623	0.343
C(long)[T.181.91]	-6.2550	4.540	-1.378	0.169	-15.180	2.670
C(long)[T.181.93]	-15.2600	5.242	-2.911	0.004	-25.566	-4.954
C(long)[T.181.96]	-11.3500	4.540	-2.500	0.013	-20.275	-2.425
C(long)[T.181.98]	-5.3200	5.242	-1.015	0.311	-15.626	4.986
C(long)[T.181.99]	-7.3100	5.242	-1.395	0.164	-17.616	2.996
C(long)[T.182.0]	-12.5067	4.280	-2.922	0.004	-20.921	-4.092
C(long)[T.182.01]	-7.1900	5.242	-1.372	0.171	-17.496	3.116
C(long)[T.182.02]	-11.0533	4.280	-2.583	0.010	-19.468	-2.639
C(long)[T.182.04]	-6.6733	4.280	-1.559	0.120	-15.088	1.741
C(long)[T.182.1]	-13.1286	3.963	-3.313	0.001	-20.919	-5.338
C(long)[T.182.11]	-5.6900	5.242	-1.085	0.278	-15.996	4.616
C(long)[T.182.12]	-13.1500	5.242	-2.509	0.013	-23.456	-2.844

C(long)[T.182.13]	-7.0000	5.242	-1.335	0.183	-17.306	3.306
C(long)[T.182.16]	-12.6000	4.540	-2.776	0.006	-21.525	-3.675
C(long)[T.182.18]	-12.4350	4.144	-3.001	0.003	-20.582	-4.288
C(long)[T.182.2]	-5.4250	4.540	-1.195	0.233	-14.350	3.500
C(long)[T.182.21]	-5.9700	5.242	-1.139	0.255	-16.276	4.336
C(long)[T.182.22]	-11.2950	4.540	-2.488	0.013	-20.220	-2.370
C(long)[T.182.23]	-5.7000	5.242	-1.087	0.278	-16.006	4.606
C(long)[T.182.25]	-15.2500	5.242	-2.909	0.004	-25.556	-4.944
C(long)[T.182.26]	-10.4400	4.540	-2.300	0.022	-19.365	-1.515
C(long)[T.182.28]	-11.0600	4.540	-2.436	0.015	-19.985	-2.135
C(long)[T.182.29]	-4.3650	4.540	-0.962	0.337	-13.290	4.560
C(long)[T.182.3]	-9.4086	3.963	-2.374	0.018	-17.199	-1.618
C(long)[T.182.31]	-10.3250	4.540	-2.274	0.023	-19.250	-1.400
C(long)[T.182.32]	-7.6250	4.540	-1.680	0.094	-16.550	1.300
C(long)[T.182.35]	-5.9000	5.242	-1.126	0.261	-16.206	4.406
C(long)[T.182.36]	-14.4200	5.242	-2.751	0.006	-24.726	-4.114
C(long)[T.182.37]	-6.8900	4.144	-1.663	0.097	-15.037	1.257
C(long)[T.182.38]	-11.3600	4.280	-2.654	0.008	-19.774	-2.946
C(long)[T.182.39]	-11.2783	4.004	-2.817	0.005	-19.149	-3.407
C(long)[T.182.4]	-13.4325	3.931	-3.417	0.001	-21.162	-5.703
C(long)[T.182.41]	-5.0600	4.540	-1.115	0.266	-13.985	3.865
C(long)[T.182.43]	-8.9400	4.280	-2.089	0.037	-17.354	-0.526
C(long)[T.182.44]	-7.7467	4.280	-1.810	0.071	-16.161	0.668
C(long)[T.182.45]	-6.2100	5.242	-1.185	0.237	-16.516	4.096
C(long)[T.182.47]	-14.8600	5.242	-2.835	0.005	-25.166	-4.554
C(long)[T.182.5]	-13.9925	4.144	-3.376	0.001	-22.140	-5.845
C(long)[T.182.51]	-4.6300	4.540	-1.020	0.308	-13.555	4.295
C(long)[T.182.53]	-12.0700	4.280	-2.820	0.005	-20.484	-3.656

C(long)[T.182.54]	-8.7700	4.280	-2.049	0.041	-17.184	-0.356
C(long)[T.182.56]	-10.9800	5.242	-2.095	0.037	-21.286	-0.674
C(long)[T.182.6]	-11.5300	4.280	-2.694	0.007	-19.944	-3.116
C(long)[T.182.61]	-16.1100	5.242	-3.073	0.002	-26.416	-5.804
C(long)[T.182.62]	-6.4900	5.242	-1.238	0.216	-16.796	3.816
C(long)[T.182.64]	-5.6600	5.242	-1.080	0.281	-15.966	4.646
C(long)[T.182.65]	-12.5700	5.242	-2.398	0.017	-22.876	-2.264
C(long)[T.182.68]	-9.8150	4.540	-2.162	0.031	-18.740	-0.890
C(long)[T.182.69]	-13.8700	5.242	-2.646	0.008	-24.176	-3.564
C(long)[T.182.72]	-16.4800	5.242	-3.144	0.002	-26.786	-6.174
C(long)[T.182.73]	-3.5500	5.242	-0.677	0.499	-13.856	6.756
C(long)[T.182.74]	-7.2300	5.242	-1.379	0.169	-17.536	3.076
C(long)[T.182.75]	-11.1500	5.242	-2.127	0.034	-21.456	-0.844
C(long)[T.182.77]	-13.7500	5.242	-2.623	0.009	-24.056	-3.444
C(long)[T.182.78]	-6.4300	5.242	-1.227	0.221	-16.736	3.876
C(long)[T.182.8]	-9.3940	4.060	-2.314	0.021	-17.377	-1.411
C(long)[T.182.82]	-7.9000	4.540	-1.740	0.083	-16.825	1.025
C(long)[T.182.84]	-11.5100	5.242	-2.196	0.029	-21.816	-1.204
C(long)[T.182.85]	-12.1200	5.242	-2.312	0.021	-22.426	-1.814
C(long)[T.182.9]	-6.5250	4.540	-1.437	0.151	-15.450	2.400
C(long)[T.182.92]	-15.0400	5.242	-2.869	0.004	-25.346	-4.734
C(long)[T.182.93]	-9.8467	4.280	-2.301	0.022	-18.261	-1.432
C(long)[T.183.0]	-8.2600	4.280	-1.930	0.054	-16.674	0.154
C(long)[T.183.05]	-6.5600	5.242	-1.251	0.212	-16.866	3.746
C(long)[T.183.11]	-8.9300	5.242	-1.704	0.089	-19.236	1.376
C(long)[T.183.13]	-2.4100	5.242	-0.460	0.646	-12.716	7.896
C(long)[T.183.2]	-9.6975	4.144	-2.340	0.020	-17.845	-1.550
C(long)[T.183.22]	-7.2300	5.242	-1.379	0.169	-17.536	3.076



C(long)[T.183.23]	-8.7100	5.242	-1.662	0.097	-19.016	1.596
C(long)[T.183.3]	-9.8500	5.242	-1.879	0.061	-20.156	0.456
C(long)[T.183.32]	-4.7600	5.242	-0.908	0.364	-15.066	5.546
C(long)[T.183.33]	-11.8300	5.242	-2.257	0.025	-22.136	-1.524
C(long)[T.183.34]	-9.7000	5.242	-1.850	0.065	-20.006	0.606
C(long)[T.183.35]	-13.8700	5.242	-2.646	0.008	-24.176	-3.564
C(long)[T.183.4]	-11.3833	4.004	-2.843	0.005	-19.254	-3.512
C(long)[T.183.41]	-5.3100	5.242	-1.013	0.312	-15.616	4.996
C(long)[T.183.44]	-14.2300	5.242	-2.715	0.007	-24.536	-3.924
C(long)[T.183.45]	-10.2300	5.242	-1.952	0.052	-20.536	0.076
C(long)[T.183.47]	-15.7100	5.242	-2.997	0.003	-26.016	-5.404
C(long)[T.183.48]	-8.9400	5.242	-1.705	0.089	-19.246	1.366
C(long)[T.183.5]	-12.1825	4.144	-2.940	0.003	-20.330	-4.035
C(long)[T.183.51]	-6.3400	5.242	-1.209	0.227	-16.646	3.966
C(long)[T.183.52]	-9.4300	5.242	-1.799	0.073	-19.736	0.876
C(long)[T.183.54]	-3.1900	5.242	-0.609	0.543	-13.496	7.116
C(long)[T.183.58]	-8.8600	5.242	-1.690	0.092	-19.166	1.446
C(long)[T.183.59]	-9.5450	4.540	-2.103	0.036	-18.470	-0.620
C(long)[T.183.6]	-12.1600	4.540	-2.679	0.008	-21.085	-3.235
C(long)[T.183.61]	-13.9300	5.242	-2.657	0.008	-24.236	-3.624
C(long)[T.183.63]	-13.6900	5.242	-2.612	0.009	-23.996	-3.384
C(long)[T.183.68]	-9.8350	4.540	-2.166	0.031	-18.760	-0.910
C(long)[T.183.71]	-7.9200	5.242	-1.511	0.132	-18.226	2.386
C(long)[T.183.78]	-8.4250	4.540	-1.856	0.064	-17.350	0.500
C(long)[T.183.8]	-10.0500	5.242	-1.917	0.056	-20.356	0.256
C(long)[T.183.81]	-8.9550	4.540	-1.973	0.049	-17.880	-0.030
C(long)[T.183.83]	-7.3600	5.242	-1.404	0.161	-17.666	2.946
C(long)[T.183.84]	-6.7467	4.280	-1.576	0.116	-15.161	1.668

C(long)[T.183.86]	-7.9600	4.540	-1.753	0.080	-16.885	0.965
C(long)[T.183.87]	-6.2500	5.242	-1.192	0.234	-16.556	4.056
C(long)[T.183.88]	-14.1500	5.242	-2.699	0.007	-24.456	-3.844
C(long)[T.183.91]	-7.0700	5.242	-1.349	0.178	-17.376	3.236
C(long)[T.183.95]	-9.4867	4.280	-2.216	0.027	-17.901	-1.072
C(long)[T.183.97]	-6.6600	5.242	-1.271	0.205	-16.966	3.646
C(long)[T.183.99]	-10.1550	4.540	-2.237	0.026	-19.080	-1.230
C(long)[T.184.0]	-10.4400	5.242	-1.992	0.047	-20.746	-0.134
C(long)[T.184.03]	-10.2200	5.242	-1.950	0.052	-20.526	0.086
C(long)[T.184.06]	-7.4600	5.242	-1.423	0.155	-17.766	2.846
C(long)[T.184.08]	-7.0400	5.242	-1.343	0.180	-17.346	3.266
C(long)[T.184.09]	-7.1700	5.242	-1.368	0.172	-17.476	3.136
C(long)[T.184.1]	-8.2350	4.540	-1.814	0.070	-17.160	0.690
C(long)[T.184.13]	-10.8500	5.242	-2.070	0.039	-21.156	-0.544
C(long)[T.184.14]	-6.8300	5.242	-1.303	0.193	-17.136	3.476
C(long)[T.184.16]	-5.9900	5.242	-1.143	0.254	-16.296	4.316
C(long)[T.184.2]	-10.3000	4.540	-2.269	0.024	-19.225	-1.375
C(long)[T.184.23]	-6.5050	4.540	-1.433	0.153	-15.430	2.420
C(long)[T.184.24]	-2.1700	5.242	-0.414	0.679	-12.476	8.136
C(long)[T.184.27]	-7.3100	5.242	-1.395	0.164	-17.616	2.996
C(long)[T.184.28]	-6.9000	4.540	-1.520	0.129	-15.825	2.025
C(long)[T.184.3]	-7.4400	4.540	-1.639	0.102	-16.365	1.485
C(long)[T.184.31]	-6.8200	4.540	-1.502	0.134	-15.745	2.105
C(long)[T.184.35]	-7.0100	5.242	-1.337	0.182	-17.316	3.296
C(long)[T.184.36]	-6.2900	5.242	-1.200	0.231	-16.596	4.016
C(long)[T.184.37]	-6.3500	5.242	-1.211	0.226	-16.656	3.956
C(long)[T.184.4]	-7.2500	5.242	-1.383	0.167	-17.556	3.056
C(long)[T.184.41]	-7.7100	5.242	-1.471	0.142	-18.016	2.596

C(long)[T.184.42]	-8.3400	4.540	-1.837	0.067	-17.265	0.585
C(long)[T.184.46]	-8.4200	4.540	-1.855	0.064	-17.345	0.505
C(long)[T.184.47]	-8.8950	4.540	-1.959	0.051	-17.820	0.030
C(long)[T.184.48]	-8.0900	4.540	-1.782	0.076	-17.015	0.835
C(long)[T.184.49]	-10.8800	5.242	-2.076	0.039	-21.186	-0.574
C(long)[T.184.5]	-8.2640	4.060	-2.035	0.042	-16.247	-0.281
C(long)[T.184.51]	-7.0000	5.242	-1.335	0.183	-17.306	3.306
C(long)[T.184.52]	-8.0400	4.280	-1.878	0.061	-16.454	0.374
C(long)[T.184.53]	-4.9500	4.540	-1.090	0.276	-13.875	3.975
C(long)[T.184.56]	-9.3900	5.242	-1.791	0.074	-19.696	0.916
C(long)[T.184.6]	-10.6900	4.280	-2.498	0.013	-19.104	-2.276
C(long)[T.184.61]	-10.4300	5.242	-1.990	0.047	-20.736	-0.124
C(long)[T.184.62]	-2.1500	5.242	-0.410	0.682	-12.456	8.156
C(long)[T.184.64]	-11.1000	5.242	-2.118	0.035	-21.406	-0.794
C(long)[T.184.68]	-6.5250	4.144	-1.575	0.116	-14.672	1.622
C(long)[T.184.7]	-8.4233	4.280	-1.968	0.050	-16.838	-0.009
C(long)[T.184.75]	-7.4000	5.242	-1.412	0.159	-17.706	2.906
C(long)[T.184.8]	-10.3500	5.242	-1.974	0.049	-20.656	-0.044
C(long)[T.184.83]	-3.0000	5.242	-0.572	0.567	-13.306	7.306
C(long)[T.184.84]	-5.5500	5.242	-1.059	0.290	-15.856	4.756
C(long)[T.184.85]	-11.1900	5.242	-2.135	0.033	-21.496	-0.884
C(long)[T.184.87]	-2.0000	5.242	-0.382	0.703	-12.306	8.306
C(long)[T.184.89]	-3.2400	5.242	-0.618	0.537	-13.546	7.066
C(long)[T.184.9]	-10.6500	5.242	-2.032	0.043	-20.956	-0.344
C(long)[T.184.91]	-9.1900	5.242	-1.753	0.080	-19.496	1.116
C(long)[T.184.93]	-4.2500	5.242	-0.811	0.418	-14.556	6.056
C(long)[T.184.95]	-5.5600	4.540	-1.225	0.221	-14.485	3.365
C(long)[T.184.97]	-6.2800	5.242	-1.198	0.232	-16.586	4.026

C(long)[T.185.0]	-6.8950	4.540	-1.519	0.130	-15.820	2.030
C(long)[T.185.01]	-7.9600	5.242	-1.519	0.130	-18.266	2.346
C(long)[T.185.05]	-2.7000	5.242	-0.515	0.607	-13.006	7.606
C(long)[T.185.1]	-4.2600	4.280	-0.995	0.320	-12.674	4.154
C(long)[T.185.11]	-2.3900	5.242	-0.456	0.649	-12.696	7.916
C(long)[T.185.13]	-3.8900	4.540	-0.857	0.392	-12.815	5.035
C(long)[T.185.16]	-4.5700	5.242	-0.872	0.384	-14.876	5.736
C(long)[T.185.17]	-3.8750	4.540	-0.854	0.394	-12.800	5.050
C(long)[T.185.18]	-8.0300	5.242	-1.532	0.126	-18.336	2.276
C(long)[T.185.19]	-2.5800	5.242	-0.492	0.623	-12.886	7.726
C(long)[T.185.2]	-7.7000	4.540	-1.696	0.091	-16.625	1.225
C(long)[T.185.23]	-2.8600	4.540	-0.630	0.529	-11.785	6.065
C(long)[T.185.25]	-4.5350	4.540	-0.999	0.318	-13.460	4.390
C(long)[T.185.26]	-5.3150	4.540	-1.171	0.242	-14.240	3.610
C(long)[T.185.27]	-5.5000	5.242	-1.049	0.295	-15.806	4.806
C(long)[T.185.3]	-4.9833	4.280	-1.164	0.245	-13.398	3.431
C(long)[T.185.31]	-4.2900	5.242	-0.818	0.414	-14.596	6.016
C(long)[T.185.32]	-5.7650	4.540	-1.270	0.205	-14.690	3.160
C(long)[T.185.33]	-4.9300	5.242	-0.940	0.348	-15.236	5.376
C(long)[T.185.35]	-6.7700	5.242	-1.292	0.197	-17.076	3.536
C(long)[T.185.4]	-5.6500	5.242	-1.078	0.282	-15.956	4.656
C(long)[T.185.43]	-3.8800	4.540	-0.855	0.393	-12.805	5.045
C(long)[T.185.48]	-6.9200	4.540	-1.524	0.128	-15.845	2.005
C(long)[T.185.5]	-8.9300	4.540	-1.967	0.050	-17.855	-0.005
C(long)[T.185.51]	-3.8000	5.242	-0.725	0.469	-14.106	6.506
C(long)[T.185.6]	-7.2150	4.540	-1.589	0.113	-16.140	1.710
C(long)[T.185.61]	-4.1300	5.242	-0.788	0.431	-14.436	6.176
C(long)[T.185.62]	-8.7200	5.242	-1.664	0.097	-19.026	1.586

C(long)[T.185.64]	-2.8700	5.242	-0.548	0.584	-13.176	7.436
C(long)[T.185.68]	-7.6200	5.242	-1.454	0.147	-17.926	2.686
C(long)[T.185.7]	-3.6700	5.242	-0.700	0.484	-13.976	6.636
C(long)[T.185.72]	-4.0500	5.242	-0.773	0.440	-14.356	6.256
C(long)[T.185.74]	-3.8850	4.540	-0.856	0.393	-12.810	5.040
C(long)[T.185.75]	-3.3900	5.242	-0.647	0.518	-13.696	6.916
C(long)[T.185.77]	-8.0533	4.280	-1.882	0.061	-16.468	0.361
C(long)[T.185.8]	-5.4500	4.540	-1.201	0.231	-14.375	3.475
C(long)[T.185.86]	-6.2067	4.280	-1.450	0.148	-14.621	2.208
C(long)[T.185.9]	-6.2325	4.144	-1.504	0.133	-14.380	1.915
C(long)[T.185.93]	-2.3300	5.242	-0.444	0.657	-12.636	7.976
C(long)[T.185.94]	-4.1000	5.242	-0.782	0.435	-14.406	6.206
C(long)[T.185.96]	-4.2300	5.242	-0.807	0.420	-14.536	6.076
C(long)[T.185.98]	-2.4300	5.242	-0.464	0.643	-12.736	7.876
C(long)[T.186.0]	-3.4500	5.242	-0.658	0.511	-13.756	6.856
C(long)[T.186.04]	-2.6400	5.242	-0.504	0.615	-12.946	7.666
C(long)[T.186.08]	-3.1200	5.242	-0.595	0.552	-13.426	7.186
C(long)[T.186.1]	-5.0050	4.540	-1.103	0.271	-13.930	3.920
C(long)[T.186.16]	-6.9950	4.540	-1.541	0.124	-15.920	1.930
C(long)[T.186.2]	-6.8500	5.242	-1.307	0.192	-17.156	3.456
C(long)[T.186.21]	-2.3900	5.242	-0.456	0.649	-12.696	7.916
C(long)[T.186.26]	-2.8000	5.242	-0.534	0.594	-13.106	7.506
C(long)[T.186.3]	-5.8933	4.280	-1.377	0.169	-14.308	2.521
C(long)[T.186.36]	-6.5100	5.242	-1.242	0.215	-16.816	3.796
C(long)[T.186.4]	-2.5000	5.242	-0.477	0.634	-12.806	7.806
C(long)[T.186.42]	-2.4400	5.242	-0.465	0.642	-12.746	7.866
C(long)[T.186.44]	-2.5600	5.242	-0.488	0.626	-12.866	7.746
C(long)[T.186.51]	-7.5600	5.242	-1.442	0.150	-17.866	2.746

C(long)[T.186.52]	-3.3600	5.242	-0.641	0.522	-13.666	6.946
C(long)[T.186.54]	-4.5500	5.242	-0.868	0.386	-14.856	5.756
C(long)[T.186.59]	-6.4900	5.242	-1.238	0.216	-16.796	3.816
C(long)[T.186.66]	-2.5100	5.242	-0.479	0.632	-12.816	7.796
C(long)[T.186.71]	-2.5100	5.242	-0.479	0.632	-12.816	7.796
C(long)[T.186.72]	-5.9300	5.242	-1.131	0.259	-16.236	4.376
C(long)[T.186.73]	-2.9367	4.280	-0.686	0.493	-11.351	5.478
C(long)[T.186.74]	-3.7700	5.242	-0.719	0.472	-14.076	6.536
C(long)[T.186.75]	-2.4800	5.242	-0.473	0.636	-12.786	7.826
C(long)[T.186.78]	-4.8900	5.242	-0.933	0.351	-15.196	5.416
C(long)[T.186.8]	-3.9433	4.280	-0.921	0.357	-12.358	4.471
C(long)[T.186.83]	-6.1700	5.242	-1.177	0.240	-16.476	4.136
C(long)[T.186.87]	-2.5500	5.242	-0.486	0.627	-12.856	7.756
C(long)[T.186.9]	-4.6500	4.540	-1.024	0.306	-13.575	4.275
C(long)[T.187.0]	-4.1400	5.242	-0.790	0.430	-14.446	6.166
C(long)[T.187.09]	-4.8200	5.242	-0.920	0.358	-15.126	5.486
C(long)[T.187.1]	-3.6600	5.242	-0.698	0.485	-13.966	6.646
C(long)[T.187.15]	-2.7250	4.540	-0.600	0.549	-11.650	6.200
C(long)[T.187.2]	-2.3200	5.242	-0.443	0.658	-12.626	7.986
C(long)[T.187.32]	-3.2900	5.242	-0.628	0.531	-13.596	7.016
C(long)[T.187.48]	-3.2600	5.242	-0.622	0.534	-13.566	7.046
C(long)[T.187.55]	-6.0000	5.242	-1.145	0.253	-16.306	4.306
C(long)[T.187.8]	-4.0950	4.540	-0.902	0.368	-13.020	4.830
C(long)[T.187.81]	-2.6100	5.242	-0.498	0.619	-12.916	7.696
C(long)[T.188.1]	-4.8500	5.242	-0.925	0.355	-15.156	5.456
C(long)[T.188.13]	-3.0200	5.242	-0.576	0.565	-13.326	7.286

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Omnibus: 147.057 Durbin-Watson: 1.919

Prob(Omnibus):	0.000	Jarque-Bera (JB):	817.506
Skew:	-0.536	Prob(JB):	3.03e-178
Kurtosis:	7.298	Cond. No.	779.

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