

IML Term project

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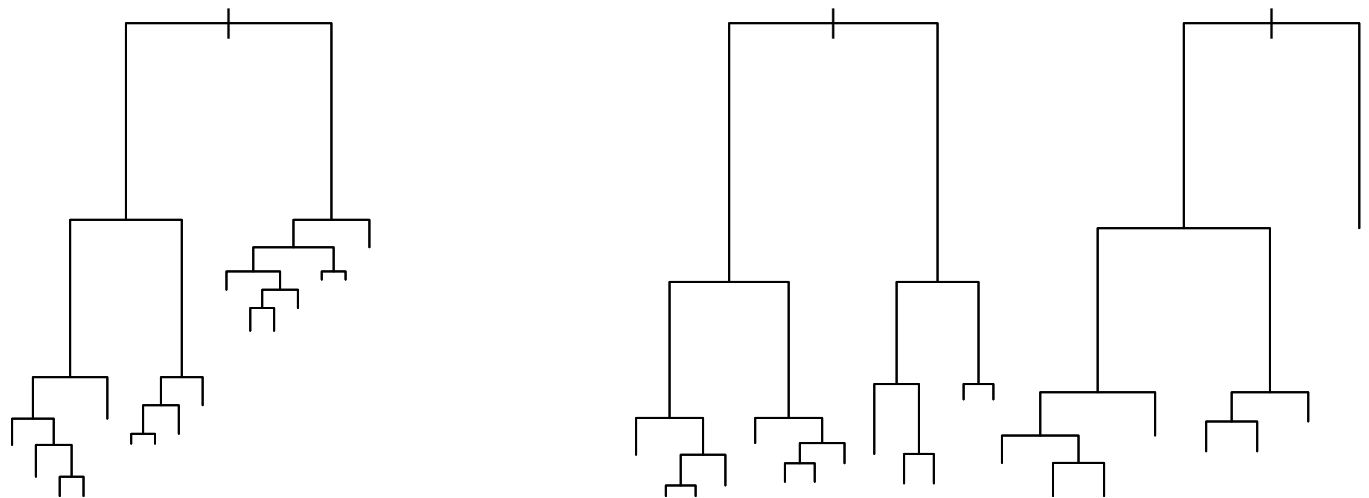
11.12.2022

Classifiers

Tree-based methods

```
##
## Classification tree:
## tree(formula = class2 ~ ., data = npf.fact.train)
## Variables actually used in tree construction:
## [1] "RHIRGA84.mean" "H20168.mean" "SWS.mean" "CS.mean"
## [5] "CS.std" "C02168.mean" "N0x168.std" "H20168.std"
## [9] "RHIRGA336.mean" "O3672.std" "PTG.std" "H20504.std"
## [13] "O3168.std"
## Number of terminal nodes: 16
## Residual mean deviance: 0.1086 = 23.47 / 216
## Misclassification error rate: 0.02586 = 6 / 232

##
## Classification tree:
## tree(formula = class2 ~ ., data = npf.168.fact.train)
## Variables actually used in tree construction:
## [1] "RHIRGA168.mean" "H20168.mean" "PTG.mean" "N0168.std"
## [5] "C02168.mean" "Glob.std" "CS.mean" "O3168.mean"
## Number of terminal nodes: 13
## Residual mean deviance: 0.2165 = 47.41 / 219
## Misclassification error rate: 0.04741 = 11 / 232
```



```
## 0 1 C02168.mean C02168.std Glob.mean Glob.std
```

##	2000-03-30	0.0000000	1.0000000	378.1973	1.0014931	3.478842	2.165706
##	2000-04-07	0.0000000	1.0000000	375.6430	0.5586294	324.318386	193.207278
##	2000-04-09	0.0000000	1.0000000	373.8695	0.6556044	348.039584	209.405812
##	2000-05-18	0.0000000	1.0000000	380.7911	1.8720261	170.149847	167.636066
##	2000-06-11	0.0000000	1.0000000	372.5500	4.4541075	363.562965	269.565427
##	2000-06-21	0.0000000	1.0000000	375.4977	2.9812938	90.819492	65.879113
##	2000-06-22	0.0000000	1.0000000	368.5694	1.9073260	349.232768	289.715680
##	2000-07-04	0.0000000	1.0000000	369.3682	2.1127998	216.487715	144.816852
##	2000-08-12	0.8936170	0.1063830	367.8471	7.4173100	359.139712	265.285030
##	2001-05-17	0.8936170	0.1063830	362.5143	7.3348434	304.461203	246.980277
##	2001-05-31	0.0000000	1.0000000	367.3237	7.5629471	291.921063	255.493422
##	2001-06-02	0.0000000	1.0000000	365.8166	5.8321105	289.694586	164.843205
##	2001-06-13	0.8936170	0.1063830	370.7108	2.5355407	406.417406	263.980727
##	2001-06-27	0.0000000	1.0000000	368.3883	5.3238406	195.883805	158.995377
##	2001-07-02	0.0000000	1.0000000	370.4846	2.3907546	134.580857	131.015774
##	2001-08-01	0.0000000	1.0000000	368.2329	0.9324771	41.711807	30.652021
##	2003-03-23	0.0000000	1.0000000	362.3167	2.7551267	411.341616	274.035708
##	2003-03-28	0.0000000	1.0000000	360.8835	4.5286542	257.389008	212.322281
##	2003-04-07	0.0000000	1.0000000	361.6458	2.2862680	281.534802	221.960073
##	2003-04-09	0.0000000	1.0000000	376.8371	1.2601507	130.386273	114.088973
##	2003-04-22	0.0000000	1.0000000	375.9098	1.2582411	196.188903	156.047555
##	2003-04-24	0.0000000	1.0000000	376.4746	0.8463104	236.029519	164.041174
##	2003-04-27	0.0000000	1.0000000	375.2112	0.9602161	295.232407	169.833107
##	2003-05-11	0.0000000	1.0000000	377.8974	0.6630326	322.366047	248.380650
##	2003-05-14	0.8936170	0.1063830	377.1007	0.8345457	340.036352	260.563929
##	2003-06-20	0.8936170	0.1063830	375.4111	2.0733857	363.212112	246.849607
##	2003-07-09	0.8936170	0.1063830	375.1254	1.7153129	392.783699	245.726577
##	2003-07-14	0.0000000	1.0000000	381.4930	4.3869286	111.456879	104.807009
##	2003-07-22	0.8461538	0.1538462	360.4865	3.7288988	332.186227	285.080075
##	2003-08-09	0.0000000	1.0000000	372.6848	19.4605208	287.442486	227.025826
##	2003-09-06	0.8461538	0.1538462	363.6428	5.8888752	318.946523	186.050946
##	2003-09-18	0.8461538	0.1538462	368.2712	8.2232711	278.035769	189.406602
##	2003-10-15	0.0000000	1.0000000	379.4908	16.1352960	109.345063	109.394657
##	2003-10-20	0.0000000	1.0000000	369.4129	2.7190526	98.956964	102.905647
##	2003-10-26	0.8936170	0.1063830	364.2671	4.0808527	262.086849	171.561652
##	2003-11-18	0.8936170	0.1063830	367.7117	2.7401366	120.082700	115.091757
##	2003-11-22	0.8936170	0.1063830	370.4176	1.3998787	177.931469	108.196551
##	2003-12-01	0.8936170	0.1063830	371.7129	1.6233921	83.458146	70.800002
##	2003-12-02	0.8936170	0.1063830	380.8326	0.4391927	36.376894	22.741565
##	2003-12-09	0.8936170	0.1063830	379.3857	0.2109518	148.274677	72.673637
##	2004-01-09	0.8936170	0.1063830	381.2273	2.6664857	138.017528	107.403915
##	2004-01-22	0.8936170	0.1063830	384.8064	0.9835945	213.849620	144.421572
##	2004-01-24	0.8936170	0.1063830	385.6539	0.4665648	96.643700	65.700189
##	2004-02-01	0.8936170	0.1063830	380.2726	2.0235093	251.177234	154.440721
##	2004-02-28	0.8936170	0.1063830	381.3043	0.5745745	337.405558	193.465561
##	2004-03-01	0.0000000	1.0000000	382.9629	1.4010417	324.633132	189.607221
##	2004-03-07	0.8936170	0.1063830	381.3265	0.9053230	330.636903	195.643455
##	2004-03-09	0.0000000	1.0000000	385.5759	3.8658364	280.297093	190.638278
##	2004-03-10	0.0000000	1.0000000	382.2068	1.7709448	337.319288	198.375953
##	2004-03-14	0.8936170	0.1063830	383.9160	2.4076931	312.786155	206.675746
##	2004-03-29	0.0000000	1.0000000	377.9243	1.1196470	312.675473	202.345448
##	2004-04-02	0.0000000	1.0000000	375.0780	1.8192465	356.740901	232.570027
##	2004-04-09	0.0000000	1.0000000	376.8179	3.3429649	96.590465	73.755202
##	2004-04-17	0.0000000	1.0000000	375.0740	0.8943134	290.281456	230.645640

##	2004-04-24	0.0000000	1.0000000	376.4002	3.6838038	240.243838	208.837886
##	2004-04-30	0.0000000	1.0000000	377.0198	4.9356570	117.180804	91.942721
##	2004-05-02	0.0000000	1.0000000	373.9877	3.3309461	257.056771	204.544021
##	2004-05-10	0.8936170	0.1063830	372.8634	6.7892890	276.634008	243.359189
##	2004-05-19	0.0000000	1.0000000	373.0451	17.2847593	285.504074	227.314048
##	2004-05-20	0.0000000	1.0000000	365.0653	6.8759483	304.295837	246.337831
##	2004-05-28	0.1875000	0.8125000	380.2072	5.5209682	78.590115	54.761759
##	2004-06-17	0.0000000	1.0000000	380.4248	0.9722192	19.282162	8.990475
##	2004-06-19	0.0000000	1.0000000	379.2147	0.2704766	23.171338	12.414514
##	2004-10-05	0.8936170	0.1063830	377.7697	0.2073953	51.274841	36.261808
##	2004-10-29	0.8936170	0.1063830	377.1179	0.6520784	13.268121	7.068576
##	2004-11-19	0.8936170	0.1063830	379.5292	0.2805236	26.345609	21.525923
##	2004-12-18	0.8936170	0.1063830	380.5494	1.0178840	8.156026	6.678222
##	2004-12-20	0.8936170	0.1063830	380.6306	0.5225802	7.777134	5.057435
##	2004-12-26	0.8936170	0.1063830	383.4351	0.6666354	10.681724	5.949799
##	2004-12-27	0.8936170	0.1063830	390.1270	0.4805149	5.483705	3.087165
##	2004-12-30	0.8936170	0.1063830	388.9900	0.7793066	6.643513	3.488235
##	2005-01-16	0.8936170	0.1063830	384.3194	0.8501224	107.825823	69.967538
##	2005-01-17	0.8936170	0.1063830	383.6402	0.8667020	62.208409	40.270576
##	2005-01-18	0.8936170	0.1063830	382.8990	0.7844839	214.483941	127.320934
##	2005-01-19	0.8936170	0.1063830	380.7784	0.5927246	270.168675	144.011896
##	2005-01-22	0.8936170	0.1063830	379.7734	0.6121768	248.242206	136.168244
##	2005-02-03	0.8936170	0.1063830	379.8999	1.3250728	253.374942	190.402937
##	2005-02-27	0.8936170	0.1063830	382.6620	2.7077994	215.321987	153.205444
##	2005-03-11	0.0000000	1.0000000	380.7958	2.1244776	322.492450	189.066090
##	2005-03-27	0.0000000	1.0000000	383.1518	3.3730747	276.573385	180.147734
##	2005-03-29	0.0000000	1.0000000	379.5719	0.7083054	305.239544	213.186634
##	2005-04-01	0.0000000	1.0000000	380.8926	0.8523743	162.940845	154.444922
##	2005-04-05	0.1875000	0.8125000	383.5866	1.8382846	350.620213	251.364630
##	2005-04-06	0.0000000	1.0000000	381.5024	2.1882865	415.840420	263.175031
##	2005-04-07	0.1875000	0.8125000	374.4404	3.9601311	423.902610	288.917701
##	2005-04-28	0.0000000	1.0000000	375.3700	10.0961750	331.979992	286.459100
##	2005-05-01	0.8936170	0.1063830	366.6197	2.9273245	414.730727	284.860705
##	2005-05-02	0.0000000	1.0000000	371.9357	11.9586472	324.725326	269.600295
##	2005-05-08	0.0000000	1.0000000	370.7637	4.1160863	395.593872	281.806273
##	2005-05-11	0.0000000	1.0000000	372.5752	10.0514047	269.903167	253.728948
##	2005-05-21	0.0000000	1.0000000	370.6867	2.2225502	87.599868	81.903091
##	2005-06-11	0.1875000	0.8125000	364.9158	5.5463667	236.835486	231.105996
##	2005-06-19	0.0000000	1.0000000	364.6365	5.9691616	333.357730	190.755371
##	2005-06-22	0.0000000	1.0000000	364.6315	5.4232627	261.602497	161.131866
##	2005-07-01	0.0000000	1.0000000	364.3064	3.2520042	125.710488	98.988062
##	2005-07-08	0.0000000	1.0000000	367.9569	2.1768649	52.504855	42.053247
##	2005-07-09	0.8461538	0.1538462	377.5802	1.7352251	78.035128	47.159765
##	2005-07-14	0.1875000	0.8125000	370.5347	0.1378504	85.562761	50.215137
##	2005-08-10	0.8461538	0.1538462	384.1540	0.6564185	110.441972	70.705067
##	2005-09-01	0.0000000	1.0000000	379.1274	0.4439966	53.093459	35.066688
##	2005-09-05	0.0000000	1.0000000	379.5926	0.7538375	45.756499	29.031606
##	2005-09-15	0.0000000	1.0000000	380.4825	0.3210995	173.583673	125.580314
##	2005-09-18	0.8936170	0.1063830	378.2173	0.8688697	264.681664	144.419119
##	2005-09-28	0.8936170	0.1063830	371.2160	0.2366523	141.998939	129.838008
##	2005-11-26	0.8936170	0.1063830	372.1911	0.2804831	244.147964	173.332441
##	2005-12-07	0.8936170	0.1063830	372.6117	2.6505105	393.097252	247.648048
##	2005-12-20	0.8936170	0.1063830	373.3820	1.3050878	321.083150	257.195338
##	2005-12-22	0.8936170	0.1063830	370.6252	1.8895097	419.606298	275.760232

##	2006-01-27	0.8936170	0.1063830	369.0645	4.5334458	412.134922	271.444797
##	2006-02-08	0.8936170	0.1063830	364.7436	2.9724804	341.915036	278.954499
##	2006-02-14	0.8936170	0.1063830	362.3994	4.3676589	393.201264	252.322185
##	2006-03-06	0.8936170	0.1063830	373.8583	6.1358453	270.220210	229.248059
##	2006-03-13	0.0000000	1.0000000	381.5771	8.5701488	208.078502	191.231797
##	2006-03-20	0.0000000	1.0000000	378.4928	3.7498688	106.817377	75.230792
##	2006-03-29	0.8936170	0.1063830	401.8641	1.1550780	6.525279	4.662051
##	2006-05-10	0.0000000	1.0000000	398.8948	2.0095834	6.313714	3.144586
##	2006-05-15	0.0000000	1.0000000	389.4517	1.3937647	194.475183	136.068811
##	2006-05-16	0.0000000	1.0000000	387.3501	0.2755036	271.306259	219.418742
##	2006-05-24	0.8936170	0.1063830	387.0761	1.0312028	190.082257	189.564177
##	2006-07-04	0.0000000	1.0000000	383.8885	2.9402456	153.480581	124.058738
##	2006-07-22	0.8461538	0.1538462	386.1423	1.4198664	324.187361	262.309696
##	2006-07-28	1.0000000	0.0000000	386.3585	1.5102334	273.167682	225.097902
##	2006-08-16	1.0000000	0.0000000	387.4816	0.7148003	344.336471	275.116229
##	2006-08-17	0.8936170	0.1063830	384.3839	2.9326860	287.118817	190.582839
##	2006-09-04	0.8936170	0.1063830	385.6093	4.1594183	271.323988	224.102701
##	2006-09-27	1.0000000	0.0000000	386.8339	3.3533197	249.818554	238.313477
##	2006-09-30	0.8936170	0.1063830	384.0316	1.7339895	216.044310	159.503725
##	2006-11-24	0.8936170	0.1063830	384.1311	2.9989520	303.943943	240.592405
##	2006-12-08	0.8936170	0.1063830	385.4971	5.0650526	345.382042	275.043813
##	2007-03-27	0.0000000	1.0000000	381.9055	2.2488082	426.457432	275.056188
##	2007-04-02	0.0000000	1.0000000	379.3077	3.5769885	386.798587	259.707911
##	2007-04-04	0.0000000	1.0000000	386.3857	7.7862563	148.185654	165.521871
##	2007-04-06	0.0000000	1.0000000	373.3328	5.0760470	168.142379	155.863549
##	2007-04-11	0.0000000	1.0000000	373.1875	5.4484654	316.080373	259.419794
##	2007-04-13	0.0000000	1.0000000	369.4941	2.7791095	286.712152	202.598126
##	2007-04-18	0.0000000	1.0000000	395.5510	2.1030990	40.536792	26.590265
##	2007-04-19	0.0000000	1.0000000	394.1082	1.4791153	27.267078	17.970513
##	2007-05-14	0.1875000	0.8125000	393.5806	0.4935033	46.827157	30.542598
##	2007-05-21	0.0000000	1.0000000	392.5609	0.8900523	237.351456	163.789137
##	2007-05-22	0.1875000	0.8125000	395.3679	2.4804348	37.887872	23.889538
##	2007-07-21	0.1875000	0.8125000	388.7066	2.0552963	374.075946	224.285541
##	2007-07-29	0.8936170	0.1063830	388.2569	2.1823068	366.469283	224.694075
##	2007-08-19	0.0000000	1.0000000	381.2483	2.7366204	403.084363	291.825529
##	2007-09-06	0.0000000	1.0000000	366.6388	4.9186511	271.039471	225.236394
##	2007-09-07	0.0000000	1.0000000	368.9893	6.7697979	206.457545	226.513224
##	2008-02-19	0.0000000	1.0000000	368.2896	5.1692510	138.963615	102.125632
##	2008-04-17	0.0000000	1.0000000	371.0265	3.6327133	158.012441	102.647461
##	2008-04-23	0.0000000	1.0000000	374.9595	4.2818658	107.485134	71.329356
##	2008-04-26	0.0000000	1.0000000	387.7731	2.1106647	90.431726	49.377382
##	2008-05-03	0.0000000	1.0000000	391.3174	0.9199049	13.238384	7.956023
##	2008-05-13	0.0000000	1.0000000	392.6749	0.3168862	9.702994	4.278458
##	2008-06-18	0.8936170	0.1063830	401.6263	2.1626326	11.649974	9.393557
##	2008-06-26	0.0000000	1.0000000	400.3581	1.4084424	149.937756	85.208059
##	2008-07-09	1.0000000	0.0000000	392.7161	0.4702790	138.666622	98.375805
##	2008-07-24	1.0000000	0.0000000	400.0473	2.2392582	85.750573	57.763406
##	2008-08-09	0.8461538	0.1538462	395.7318	0.6079008	220.745627	161.081414
##	2008-08-19	0.8461538	0.1538462	395.9002	1.1811248	256.991427	177.398273
##	2008-08-30	0.0000000	1.0000000	392.8215	0.2510103	234.661954	178.018932
##	2008-09-02	0.1875000	0.8125000	393.7573	0.3144738	368.287718	226.859238
##	2008-09-09	0.0000000	1.0000000	389.7130	1.2710764	375.488277	235.409455
##	2008-09-25	0.0000000	1.0000000	382.9796	6.2006831	156.045678	159.091979
##	2008-09-27	0.0000000	1.0000000	378.3863	6.1980942	371.023525	278.247929

##	2008-09-29	0.0000000	1.0000000	378.0907	4.2730178	227.097426	218.538974
##	2008-10-22	0.0000000	1.0000000	374.6744	7.3218966	336.994896	249.494702
##	2008-11-08	0.8936170	0.1063830	374.4778	11.3151748	247.997468	229.439124
##	2009-02-17	0.8936170	0.1063830	376.7888	13.3247290	278.850649	194.704300
##	2009-02-18	0.8936170	0.1063830	372.5535	6.3175025	336.709607	210.192907
##	2009-02-27	0.8936170	0.1063830	375.6476	3.2866140	198.927128	154.808643
##	2009-03-24	0.0000000	1.0000000	377.2428	1.9531797	196.091241	141.585402
##	2009-03-25	0.0000000	1.0000000	385.1721	1.9803063	57.258452	41.084141
##	2009-04-09	0.1875000	0.8125000	384.4727	1.9522853	173.928507	97.629011
##	2009-04-20	0.0000000	1.0000000	392.9757	1.5945021	42.073055	29.273005
##	2009-04-30	0.0000000	1.0000000	392.1397	2.8789497	84.953407	61.840709
##	2009-06-13	1.0000000	0.0000000	396.8393	1.3485445	30.117533	15.469734
##	2009-07-02	1.0000000	0.0000000	396.8988	0.6640861	41.065323	30.461850
##	2009-07-19	1.0000000	0.0000000	395.8933	0.8623713	31.593761	20.347254
##	2009-07-28	1.0000000	0.0000000	397.2027	2.2225474	60.053949	44.777956
##	2009-08-27	0.8936170	0.1063830	407.9411	1.5857672	12.328665	8.977867
##	2009-09-24	0.0000000	1.0000000	402.7804	0.5683827	5.630060	2.890219
##	2009-10-12	0.0000000	1.0000000	399.8867	0.1046536	8.368865	4.524338
##	2009-10-15	0.0000000	1.0000000	399.8385	0.5443344	38.716369	20.225749
##	2009-11-06	0.8936170	0.1063830	403.8727	0.3510637	16.948083	9.946430
##	2009-11-10	0.8936170	0.1063830	407.3130	0.5898928	26.850796	16.344141
##	2009-11-12	0.8936170	0.1063830	397.7017	0.4563433	12.135096	6.726176
##	2009-11-18	0.8936170	0.1063830	401.4230	0.3588382	14.028259	6.893468
##	2009-11-25	0.8936170	0.1063830	406.7420	0.2798469	14.077939	8.482038
##	2009-12-10	0.8936170	0.1063830	394.0676	0.4377762	33.632250	25.082247
##	2009-12-20	0.8936170	0.1063830	411.3460	0.5726971	59.997821	39.314806
##	2009-12-23	0.8936170	0.1063830	397.2379	0.6221288	213.883173	128.367738
##	2009-12-27	0.8936170	0.1063830	397.0992	0.6951586	90.979311	60.611448
##	2010-01-11	0.8936170	0.1063830	396.6030	1.6944208	274.082903	168.188441
##	2010-01-12	0.8936170	0.1063830	394.5815	0.3935360	208.117643	152.844656
##	2010-01-17	0.8936170	0.1063830	401.6548	0.8742076	56.924300	40.535383
##	2010-02-03	0.8936170	0.1063830	391.3838	2.0028903	248.095824	211.275813
##	2010-02-12	0.8936170	0.1063830	391.9274	1.4501311	178.173831	148.738222
##	2010-03-09	0.0000000	1.0000000	389.3988	1.7638313	173.917159	114.859223
##	2010-03-18	0.8936170	0.1063830	394.5247	10.5339965	122.916701	118.978589
##	2010-03-22	0.0000000	1.0000000	386.1571	7.1838120	307.613039	259.945460
##	2010-04-17	0.0000000	1.0000000	384.8231	6.2168846	243.877650	201.246343
##	2010-04-28	0.0000000	1.0000000	392.9261	10.1997846	302.987638	217.426282
##	2010-05-04	0.0000000	1.0000000	380.2525	7.9005169	179.478165	190.887402
##	2010-05-05	0.0000000	1.0000000	379.9489	4.8671544	250.795321	236.264018
##	2010-07-04	1.0000000	0.0000000	381.1003	4.4193822	80.760704	56.255982
##	2010-07-05	1.0000000	0.0000000	381.5734	11.1039920	202.125150	140.734727
##	2010-07-27	1.0000000	0.0000000	390.9402	6.1907903	38.438142	25.049300
##	2010-07-29	1.0000000	0.0000000	387.0010	2.6744753	165.102024	117.763578
##	2010-08-01	1.0000000	0.0000000	387.9502	1.9966652	182.772627	128.622948
##	2010-08-22	1.0000000	0.0000000	401.5852	0.7861945	16.880227	9.640643
##	2010-09-03	0.8936170	0.1063830	397.1680	0.4678481	17.944306	9.654837
##	2010-09-05	1.0000000	0.0000000	396.1300	0.7374559	13.648889	6.731350
##	2010-09-11	0.8936170	0.1063830	400.9483	0.3694433	10.512690	5.838745
##	2010-09-21	0.8936170	0.1063830	406.5900	0.8140452	17.359649	10.123288
##	2010-10-19	1.0000000	0.0000000	401.5450	0.3153249	9.262508	4.627852
##	2010-11-13	0.8936170	0.1063830	405.5629	1.3921686	15.308665	8.316087
##	2010-11-18	0.8936170	0.1063830	397.3211	0.3629162	12.630873	11.093903
##	2010-11-28	0.8936170	0.1063830	398.8545	0.3372505	23.286512	13.419513

##	2010-12-24	0.8936170	0.1063830	398.7566	0.4519412	81.237099	61.435658
##	2010-12-29	0.8936170	0.1063830	402.1185	1.6962982	27.675008	17.212435
##	2010-12-31	0.8936170	0.1063830	404.5202	1.4004344	155.803638	101.889101
##	2011-01-05	0.8936170	0.1063830	391.4674	2.9570066	84.297013	73.740879
##	2011-01-11	0.8936170	0.1063830	392.1153	2.1701197	335.721397	270.157642
##	2011-01-14	0.8936170	0.1063830	387.9457	8.5942807	225.755653	245.560692
##	2011-01-31	0.8936170	0.1063830	381.6831	5.7241266	390.105106	264.687105
##	2011-02-26	0.8936170	0.1063830	378.8371	5.9475877	332.946713	268.582178
##	2011-06-03	0.0000000	1.0000000	379.9629	9.6850146	176.045583	156.848925
##	2011-06-19	1.0000000	0.0000000	388.0335	13.6902008	283.848987	224.744206
##	2011-06-28	0.1875000	0.8125000	377.5587	6.7216469	262.892753	204.343930
##	2011-07-23	1.0000000	0.0000000	378.4994	9.0213118	205.249393	147.175942
##	2011-07-26	1.0000000	0.0000000	377.2158	8.5655931	276.682172	222.839273
##	2011-08-16	0.8936170	0.1063830	381.0166	4.4115705	121.227780	131.474300
##	2011-08-22	1.0000000	0.0000000	379.2791	12.0457854	114.298822	99.583613
##	2011-08-27	1.0000000	0.0000000	382.2308	6.4074688	297.137573	208.858699
##		H2O168.mean	H2O168.std	NET.mean	NET.std	N0168.mean	
##	2000-03-30	7.2338525	0.20136906	16.909002	11.837190	0.0696721311	
##	2000-04-07	6.5005660	0.52067294	191.957743	156.370048	0.1275471698	
##	2000-04-09	3.9354762	0.42017078	183.825286	176.092971	0.0201785714	
##	2000-05-18	10.0361202	0.90932394	131.874226	142.292167	0.1973770492	
##	2000-06-11	7.9385238	0.74008419	238.478456	225.219410	0.1110697674	
##	2000-06-21	11.8937778	2.87991791	58.139703	73.905887	0.0484888889	
##	2000-06-22	6.8336170	0.28633870	211.179048	235.730920	-0.0026382979	
##	2000-07-04	5.6941525	0.57244429	122.040519	127.464015	0.0126271186	
##	2000-08-12	13.0000000	1.19926112	246.314681	220.409566	0.0096186441	
##	2001-05-17	14.7128889	1.19350965	190.507203	212.087910	0.0500000000	
##	2001-05-31	13.3073568	1.76306804	194.204229	199.103597	0.0046753247	
##	2001-06-02	7.1376190	0.54595817	161.473062	144.720899	0.1490476190	
##	2001-06-13	5.0997279	0.86217068	264.395868	231.069945	0.0461057692	
##	2001-06-27	9.5037118	1.55821359	136.183606	124.507689	0.0392139738	
##	2001-07-02	8.9779399	0.63096810	63.521212	132.385664	0.0162231760	
##	2001-08-01	11.0717021	0.38559045	36.347536	37.395099	-0.0009606987	
##	2003-03-23	8.3312340	0.58845859	263.757932	232.145151	0.0045531915	
##	2003-03-28	14.6581364	0.58738464	163.738046	178.205088	0.0175909091	
##	2003-04-07	8.4732850	0.29195330	170.822627	188.556502	0.0094685990	
##	2003-04-09	5.7572034	0.82220871	93.922525	100.064982	0.0315254237	
##	2003-04-22	4.3375207	1.04429424	99.783547	130.835997	-0.0044628099	
##	2003-04-24	6.3125000	0.31013143	140.161885	134.549707	0.0291935484	
##	2003-04-27	4.5283846	0.34768738	176.488095	158.415450	0.0106923077	
##	2003-05-11	2.4741176	0.63356893	208.519127	222.866655	0.0203370787	
##	2003-05-14	3.5069697	0.82042332	240.961542	233.558894	0.0054545455	
##	2003-06-20	6.1416185	0.60181869	222.601974	212.108636	0.0466473988	
##	2003-07-09	5.2919075	0.61565653	275.540155	233.821122	0.0543352601	
##	2003-07-14	12.8080000	2.26585271	100.454354	90.726116	0.0541142857	
##	2003-07-22	11.0906806	1.56460725	220.236657	250.741148	0.0107853403	
##	2003-08-09	18.6426380	1.34742820	203.841506	200.231690	0.0197267760	
##	2003-09-06	8.7836232	0.60306146	192.051059	168.873317	0.0578260870	
##	2003-09-18	10.4431159	0.56206709	182.627122	168.868080	0.0327536232	
##	2003-10-15	10.3509774	0.61098637	86.315704	100.872422	0.1898496241	
##	2003-10-20	12.3990000	0.23550325	46.108573	74.158542	0.0319230769	
##	2003-10-26	7.6016535	0.53006254	153.322477	159.126674	0.0536220472	
##	2003-11-18	11.0955118	0.61066800	91.707300	86.746102	0.0307086614	
##	2003-11-22	4.1382178	0.13610581	60.829868	89.797636	0.0242574257	

## 2003-12-01	3.7884536	0.18051050	47.147352	50.079179	0.0239175258
## 2003-12-02	3.4487879	0.16592413	-1.245025	18.752765	0.0200000000
## 2003-12-09	1.9700000	0.09814955	-9.380821	19.344725	0.1150746269
## 2004-01-09	4.3368269	0.24855022	81.486170	79.286795	0.0396153846
## 2004-01-22	4.2284545	0.61270222	126.489225	110.782742	0.1460000000
## 2004-01-24	4.0378632	0.34660130	58.942343	50.187257	0.1009401709
## 2004-02-01	3.8727692	0.26669675	137.388376	125.201476	0.2814393939
## 2004-02-28	1.9152985	0.09222146	196.883635	179.436114	0.0262686567
## 2004-03-01	2.6264444	0.46167842	189.042491	165.815082	0.3080740741
## 2004-03-07	3.1552941	0.35576718	186.930086	169.869982	0.1447058824
## 2004-03-09	2.9361594	0.09265998	176.848287	184.673516	0.3054347826
## 2004-03-10	3.7484375	0.32271349	229.101859	188.865320	0.1473437500
## 2004-03-14	3.7180986	0.17385872	211.735763	177.204533	0.1526056338
## 2004-03-29	3.5610828	0.20248957	218.083092	191.870972	0.0833757962
## 2004-04-02	4.4583436	0.60131057	236.018728	216.438715	0.0355828221
## 2004-04-09	8.5517442	1.82725544	89.049922	73.296909	0.0649418605
## 2004-04-17	3.3021839	0.48524691	180.758237	202.946390	0.0466666667
## 2004-04-24	7.4819251	0.48473863	159.861125	174.354394	0.0748128342
## 2004-04-30	7.9253439	0.62805467	56.899792	74.357496	0.0770370370
## 2004-05-02	7.0567347	0.31943628	170.880316	176.375873	0.0305612245
## 2004-05-10	6.8741327	0.72528598	165.093966	194.805825	0.1050000000
## 2004-05-19	11.3299454	0.64591999	211.691204	202.026227	0.0656830601
## 2004-05-20	8.0590062	0.64615324	196.420720	231.501830	0.0311801242
## 2004-05-28	5.3616092	0.20724030	33.437447	42.412919	0.3082758621
## 2004-06-17	3.3805970	0.09670136	3.077002	12.575227	0.0537313433
## 2004-06-19	3.0366667	0.09912437	-8.018687	28.006655	0.0196969697
## 2004-10-05	4.3852381	0.31800719	-20.005026	31.031217	0.0511475410
## 2004-10-29	5.9869231	0.05713114	27.372559	22.580875	0.0145283019
## 2004-11-19	3.8471154	0.09810632	2.890705	24.228112	0.0286538462
## 2004-12-18	5.1228846	0.12016878	36.092737	14.784170	0.0219230769
## 2004-12-20	5.5766038	0.16528464	17.413827	16.643628	0.0235849057
## 2004-12-26	4.7126984	0.37887442	19.452759	5.576459	0.0304761905
## 2004-12-27	6.2301887	0.04974901	9.815907	10.553493	0.0457812500
## 2004-12-30	4.9869231	0.02783450	9.508491	3.064735	0.0650769231
## 2005-01-16	4.1309639	0.07584668	88.621140	74.302335	0.2045783133
## 2005-01-17	3.7996591	0.11635705	23.147898	23.969072	0.0188636364
## 2005-01-18	2.0767327	0.17304398	78.126552	93.485320	0.0221782178
## 2005-01-19	1.8565487	0.11744125	150.599720	117.490485	0.1031858407
## 2005-01-22	3.1538211	0.27296046	124.627456	117.544851	0.0765853659
## 2005-02-03	3.2581395	0.21310857	149.663217	169.559326	0.0113953488
## 2005-02-27	3.8587023	0.19888689	124.175842	134.307280	0.0247328244
## 2005-03-11	4.1012687	0.12661838	190.124638	165.647415	0.0391044776
## 2005-03-27	4.9501460	0.77449698	151.924976	146.441227	0.1288321168
## 2005-03-29	4.7027338	0.83183297	175.280865	179.824386	0.0442446043
## 2005-04-01	6.1378571	0.43926981	117.686464	128.817291	0.1213571429
## 2005-04-05	4.4804268	0.39332677	242.734990	220.895746	0.0337195122
## 2005-04-06	4.5957143	0.62352578	269.755484	240.040712	0.0025142857
## 2005-04-07	7.4204569	2.10356750	302.605974	259.348363	0.0204568528
## 2005-04-28	12.2484772	1.76445538	229.183424	239.616337	0.0490862944
## 2005-05-01	9.1742564	0.93964450	302.830457	262.742182	0.0378461538
## 2005-05-02	12.1423037	2.17176473	213.702214	237.897917	0.0634554974
## 2005-05-08	8.2475936	1.13421286	271.196607	251.516596	0.0250802139
## 2005-05-11	11.3261202	1.24696411	180.063033	219.267336	0.0588235294
## 2005-05-21	11.9998182	1.03268267	56.671609	64.776900	0.0384242424

##	2005-06-11	14.0765563	0.25050096	164.477055	197.238314	0.0560264901
##	2005-06-19	7.6184615	0.52104622	206.298007	190.347751	0.1063636364
##	2005-06-22	8.2405714	0.79237442	157.686393	140.959544	0.0196428571
##	2005-07-01	7.1586822	0.99141501	69.717611	104.405310	0.0187596899
##	2005-07-08	8.7749606	1.34865416	22.756883	40.797855	0.0437007874
##	2005-07-09	2.3477551	0.22612004	-15.752083	28.044483	0.0732692308
##	2005-07-14	5.0566667	0.22812154	56.902050	57.549010	0.0200000000
##	2005-08-10	2.1146988	0.11762215	18.113763	9.713632	0.4728915663
##	2005-09-01	3.6843820	0.10952330	1.096441	23.388272	0.0203370787
##	2005-09-05	3.3844444	0.02998543	42.573532	24.526892	0.2105555556
##	2005-09-15	2.3161321	0.26997556	96.919654	80.469837	0.2266981132
##	2005-09-18	3.0462069	0.30457570	145.934530	125.782414	0.1929310345
##	2005-09-28	4.0902479	0.46129069	93.000482	101.388303	0.0179338843
##	2005-11-26	2.5711475	0.09044606	117.040679	131.945104	0.0878688525
##	2005-12-07	5.5371341	0.43284161	274.893746	237.345453	0.0229651163
##	2005-12-20	4.9696023	0.88815981	198.424287	221.722720	0.0077272727
##	2005-12-22	6.2664103	0.68564999	271.326179	254.662496	-0.0001025641
##	2006-01-27	7.3917098	0.99670012	277.357606	251.914163	0.0027979275
##	2006-02-08	7.4401105	0.95232172	216.580257	239.663043	0.0008743169
##	2006-02-14	8.1590341	0.40217790	256.001121	233.256362	0.0084090909
##	2006-03-06	12.6548734	1.31995886	184.177064	201.539881	0.0057861635
##	2006-03-13	11.7436634	0.54016057	133.553150	171.730563	0.0159440559
##	2006-03-20	12.2328448	0.43831060	70.893128	69.042494	0.0590677966
##	2006-03-29	7.9928571	0.28953482	14.074746	5.005252	0.0407692308
##	2006-05-10	7.6698413	0.14819878	6.992052	5.225451	0.0487692308
##	2006-05-15	3.2468148	0.95532104	119.489402	111.388687	0.2139416058
##	2006-05-16	3.1127407	0.39618033	158.833325	178.665702	0.0393430657
##	2006-05-24	5.4910185	0.67261790	84.796995	135.330160	0.0293636364
##	2006-07-04	5.9684459	0.97571583	83.322643	118.964864	0.0252666667
##	2006-07-22	4.6126351	0.82315253	197.804795	209.895776	0.0270000000
##	2006-07-28	4.4302685	0.70790989	179.663538	185.858965	0.0941721854
##	2006-08-16	2.7955625	0.21308087	200.727381	230.828160	0.0231481481
##	2006-08-17	6.8075758	0.55196782	212.572941	182.331698	0.0992814371
##	2006-09-04	7.5715385	0.67259979	174.077754	189.705090	0.0538011696
##	2006-09-27	8.5754913	1.26531153	181.067105	194.159069	0.0665714286
##	2006-09-30	5.1527119	0.48402255	141.010710	144.159437	0.0224581006
##	2006-11-24	7.3918994	0.70832987	194.348280	186.851631	0.0640883978
##	2006-12-08	8.7131667	0.61068281	189.192996	204.374170	0.0108241758
##	2007-03-27	6.5209043	0.32068898	286.265919	253.265077	0.0193717277
##	2007-04-02	7.3706316	0.85977949	231.191588	236.524401	0.0107253886
##	2007-04-04	14.9691111	0.89525334	83.804746	120.214460	0.0211518325
##	2007-04-06	12.8623256	0.52343372	90.137287	122.431733	0.0072159091
##	2007-04-11	11.8477778	1.36331360	229.315966	233.305243	0.0335897436
##	2007-04-13	7.1041481	0.40398276	168.194926	183.067923	0.0110869565
##	2007-04-18	4.1053226	0.22555373	13.607318	13.880744	0.6157575758
##	2007-04-19	6.0771818	0.15038868	33.867587	17.939851	0.0494782609
##	2007-05-14	5.5062727	0.16664448	53.991802	38.111367	0.0574782609
##	2007-05-21	2.7358120	0.13905617	124.158866	128.829538	0.0428688525
##	2007-05-22	7.5345926	0.47007107	38.886326	22.110919	0.0272857143
##	2007-07-21	3.1791333	0.29098061	241.375338	212.805351	0.0200645161
##	2007-07-29	4.3549669	0.50517835	236.510633	205.960465	0.0823717949
##	2007-08-19	6.4798953	1.05500311	283.886886	259.241512	0.0133846154
##	2007-09-06	8.5453704	1.44651697	198.933360	207.263476	0.0269090909
##	2007-09-07	10.9628750	0.79333972	187.300676	218.202730	0.0083636364

##	2008-02-19	7.3472993	1.09769578	103.650012	87.124990	0.0936619718
##	2008-04-17	7.8079231	0.29769319	93.226227	90.284284	0.0340740741
##	2008-04-23	7.7729204	0.71550891	66.053782	60.148065	0.1118644068
##	2008-04-26	3.9441333	0.47370904	13.808411	61.716408	0.1028750000
##	2008-05-03	5.2057534	0.36174699	13.843685	7.385526	0.0484615385
##	2008-05-13	4.2268085	0.05737392	30.680563	17.378271	0.0059615385
##	2008-06-18	3.8490000	0.02897690	4.498420	3.826357	0.3393846154
##	2008-06-26	2.2212500	0.36966531	62.911436	59.782347	0.1603225806
##	2008-07-09	3.6348421	0.11594077	66.116298	91.651510	0.0751000000
##	2008-07-24	3.3222222	0.25681946	66.789618	45.062592	0.0994230769
##	2008-08-09	2.4457851	0.30721532	132.613365	151.300223	0.0458730159
##	2008-08-19	2.5967480	0.27696391	152.388463	157.118701	0.0606250000
##	2008-08-30	3.9428333	0.20288672	51.731393	100.228080	0.0021666667
##	2008-09-02	2.3556044	0.20524353	236.235454	207.962363	-0.0143790850
##	2008-09-09	4.7214557	0.28437175	258.300506	227.970031	-0.0035582822
##	2008-09-25	13.8782723	0.60025227	113.030174	136.046480	0.0026020408
##	2008-09-27	11.7892632	1.82363451	261.083147	260.594881	-0.0001538462
##	2008-09-29	10.8576882	1.51773784	142.682586	184.056793	0.0016230366
##	2008-10-22	10.4196648	1.28750211	253.517189	227.037327	0.0049726776
##	2008-11-08	13.8116000	0.47442495	197.315039	206.111300	0.0307222222
##	2009-02-17	12.6466049	0.57472668	201.608260	184.577182	0.0078443114
##	2009-02-18	9.8157432	0.48639321	253.503388	205.453106	0.1027450980
##	2009-02-27	7.1752033	0.74233057	122.374592	144.528730	0.0236220472
##	2009-03-24	7.0179310	0.51872170	114.574208	140.792141	0.0169166667
##	2009-03-25	4.8480612	0.16412001	30.062806	39.235368	0.0868932039
##	2009-04-09	3.6630208	0.28775399	94.113605	100.051231	0.1230693069
##	2009-04-20	5.1503614	0.20428606	35.166006	30.969938	0.0541176471
##	2009-04-30	4.9553165	0.10643206	33.443293	44.130443	0.2305952381
##	2009-06-13	5.3208451	0.20851685	24.611035	14.951799	0.0586842105
##	2009-07-02	5.3133333	0.09813956	25.489550	78.407195	0.0264864865
##	2009-07-19	4.3224638	0.11262125	54.349297	26.416960	0.0086301370
##	2009-07-28	3.8420896	0.11678181	46.507981	32.554108	0.0297222222
##	2009-08-27	6.7681250	0.22160937	19.995073	11.043145	0.1439130435
##	2009-09-24	5.6897778	0.04207617	8.765361	1.762775	0.4107272727
##	2009-10-12	4.6093333	0.01334523	11.256656	2.759710	0.0438181818
##	2009-10-15	2.1770213	0.11462443	-47.799712	10.999996	0.3921153846
##	2009-11-06	2.0506250	0.03218340	-3.142875	12.938652	0.2573584906
##	2009-11-10	1.9942553	0.02756373	-15.948057	29.865961	0.1090384615
##	2009-11-12	2.6795745	0.08597162	14.751433	5.238800	0.0284615385
##	2009-11-18	2.2000000	0.03014458	6.455587	13.235476	0.1551923077
##	2009-11-25	1.5790000	0.16324828	24.779182	6.612752	0.1760000000
##	2009-12-10	4.1907273	0.11013215	4.929444	1.873254	0.0968333333
##	2009-12-20	1.0010448	0.04805724	29.688922	13.079631	0.6580555556
##	2009-12-23	2.6783333	0.43572424	115.496109	136.493062	0.1319626168
##	2009-12-27	5.3051724	0.16762527	66.759246	59.734026	0.0314876033
##	2010-01-11	2.8131092	0.16677778	105.735425	172.779230	0.0551612903
##	2010-01-12	5.4117073	0.31770619	167.861782	139.545237	0.3582031250
##	2010-01-17	7.2850000	0.55389461	70.933162	47.107906	0.0958394161
##	2010-02-03	5.5144681	0.63869222	157.903979	197.658839	0.0470547945
##	2010-02-12	4.8808276	0.94624734	76.149496	121.642627	0.0404666667
##	2010-03-09	3.8680124	0.32697251	138.573387	125.275809	0.0368072289
##	2010-03-18	11.5966242	0.80032009	87.532393	89.193647	0.0237654321
##	2010-03-22	11.4817368	1.32816723	173.876370	228.881100	0.0451530612
##	2010-04-17	16.1695930	0.81803599	159.881813	180.634215	0.0022033898

##	2010-04-28	16.1833333	1.93222517	240.722403	215.244148	-0.0071590909
##	2010-05-04	14.5058861	1.23810628	109.341211	150.880660	0.0182208589
##	2010-05-05	12.3620270	1.65275197	166.000308	192.218888	0.0437254902
##	2010-07-04	10.0600000	0.71104676	63.895132	53.358447	0.0296000000
##	2010-07-05	10.2930597	0.43149718	130.155732	128.908935	0.0210071942
##	2010-07-27	11.8467442	0.61481852	35.250586	21.931110	0.0593283582
##	2010-07-29	7.0676190	0.37533453	72.904003	107.030921	0.1165454545
##	2010-08-01	6.8386538	0.36618224	92.711413	109.571282	0.1262385321
##	2010-08-22	6.2743478	0.10214578	20.991932	19.776711	0.0844594595
##	2010-09-03	3.8280000	0.04623986	24.928659	16.822762	0.0334285714
##	2010-09-05	4.1321875	0.08621621	16.630338	5.757012	0.0247826087
##	2010-09-11	3.3821277	0.33572722	12.368544	4.268952	0.1548076923
##	2010-09-21	0.8702128	0.02307731	9.794920	3.608166	0.3765384615
##	2010-10-19	2.3200000	0.06394812	33.088245	5.178592	0.0530188679
##	2010-11-13	2.9967347	0.03960154	8.025155	2.899909	0.5401851852
##	2010-11-18	5.1203704	0.10065752	3.121014	10.338812	0.0300000000
##	2010-11-28	3.0435714	0.03942443	-6.293896	11.713081	0.0295000000
##	2010-12-24	1.6655385	0.17549066	11.317123	8.827561	0.1984285714
##	2010-12-29	4.4665263	0.24062316	15.627637	12.293546	0.0241000000
##	2010-12-31	3.1045361	0.25854569	78.378513	97.217451	0.3613725490
##	2011-01-05	9.0878022	0.58460035	51.681053	67.956258	0.0897326203
##	2011-01-11	7.7709140	0.69186604	169.450384	221.669873	0.0439267016
##	2011-01-14	11.1114136	1.35625475	131.190590	178.908086	0.0482653061
##	2011-01-31	9.7249738	1.14538519	259.699247	257.515423	0.0384183673
##	2011-02-26	12.2935664	1.21887180	209.125184	231.676747	0.0304663212
##	2011-06-03	11.8952747	1.55906534	130.096351	149.115336	0.0569518717
##	2011-06-19	18.6295455	0.80353990	203.096663	208.407290	0.0328176796
##	2011-06-28	9.0572619	0.84188106	190.685682	186.481078	0.0424277457
##	2011-07-23	9.8417500	0.68256780	127.483612	149.540890	0.0548484848
##	2011-07-26	8.9413291	0.60577487	209.512326	218.062775	0.0481987578
##	2011-08-16	15.1212987	0.25591998	112.010483	116.719178	0.0222012579
##	2011-08-22	13.1319463	0.56522739	78.339978	89.941820	0.0496753247
##	2011-08-27	15.1169231	1.47183618	232.929059	200.931287	0.0179729730
##		N0168.std	N0x168.mean	N0x168.std	O3168.mean	O3168.std Pamb0.mean
##	2000-03-30	0.06670441	3.83901639	0.84014108	31.483770	1.5280552 972.0672
##	2000-04-07	0.09590816	2.30301887	0.49076375	45.279308	2.4094634 990.5655
##	2000-04-09	0.04329917	0.87553571	0.16477442	47.516131	2.9200972 1001.7970
##	2000-05-18	0.19873143	5.25743169	1.01012754	39.956612	5.3306887 995.6574
##	2000-06-11	0.12505800	3.14865116	1.06913212	50.310233	7.6263414 990.1605
##	2000-06-21	0.06503729	2.61475556	0.86439701	33.739333	2.2610668 986.2534
##	2000-06-22	0.04929261	0.66246809	0.10090125	38.232085	2.0326967 982.8602
##	2000-07-04	0.04950698	0.37864407	0.14822017	32.518093	2.7092114 997.7265
##	2000-08-12	0.07496569	3.19122881	0.36457812	58.638936	10.5255471 992.9952
##	2001-05-17	0.09177371	1.65240343	0.47151651	34.537897	9.1077551 989.1805
##	2001-05-31	0.05667415	0.99125541	0.17286003	32.815238	6.3373363 989.9586
##	2001-06-02	0.23315094	1.34489796	1.02865744	26.283673	4.7769376 1012.3655
##	2001-06-13	0.06109886	1.04389423	0.37912909	50.302644	10.2365621 990.3642
##	2001-06-27	0.06357957	1.44135371	0.68432538	39.466026	5.7505818 985.4054
##	2001-07-02	0.05218817	0.66145923	0.24382109	30.735322	4.5025145 986.7620
##	2001-08-01	0.03784714	0.87323144	0.09492399	29.915362	2.0303975 977.2606
##	2003-03-23	0.04376648	0.78323404	0.36859135	35.741872	4.7114848 996.4515
##	2003-03-28	0.05043297	1.29886364	0.32298986	42.403364	6.5011239 993.6088
##	2003-04-07	0.04961216	0.19608696	0.10617650	29.715459	2.8140567 989.8102
##	2003-04-09	0.04817396	1.33296610	0.27893053	41.514915	1.5838888 994.4201

##	2003-04-22	0.02639288	0.71760331	0.10901854	43.971901	1.4684727	984.6559
##	2003-04-24	0.03434868	1.29298387	0.19376031	41.755000	3.5267794	990.0442
##	2003-04-27	0.03110842	0.76907692	0.16789368	44.739308	1.1742180	990.5863
##	2003-05-11	0.03113203	0.56662921	0.11138532	37.649326	7.2792880	1002.7092
##	2003-05-14	0.03256241	0.58606061	0.09051814	42.792303	3.0115592	991.3763
##	2003-06-20	0.08105609	1.09242775	0.49646647	44.692775	5.5678645	997.3767
##	2003-07-09	0.07741644	1.27346821	0.40153716	48.121387	6.7143119	1001.5981
##	2003-07-14	0.06395211	2.49211429	0.75137238	40.111029	5.1934966	985.6181
##	2003-07-22	0.05120558	0.49968586	0.14726241	32.516492	5.4651982	992.0253
##	2003-08-09	0.08572529	1.36157609	0.28982040	41.098043	11.1779137	998.7836
##	2003-09-06	0.08148923	0.43326087	0.19548242	25.017029	6.0671125	999.8419
##	2003-09-18	0.06847417	0.45644928	0.28120128	25.660580	5.7751209	1001.6717
##	2003-10-15	0.18662872	1.82759398	0.39512781	20.416842	9.2712128	999.2803
##	2003-10-20	0.06298882	0.91484615	0.27081626	30.469077	2.8050598	988.7480
##	2003-10-26	0.09432020	0.45614173	0.30232708	30.648661	6.2825737	991.3618
##	2003-11-18	0.04827470	1.29724409	0.22468206	40.394961	12.1243291	982.9169
##	2003-11-22	0.04648326	0.50811881	0.13546005	30.621683	2.9078074	1007.7325
##	2003-12-01	0.06877737	0.34000000	0.23922618	30.548351	2.0411811	991.6231
##	2003-12-02	0.05274029	0.94166667	0.14614622	26.300606	0.6872171	991.4587
##	2003-12-09	0.06898338	1.57000000	0.38609545	32.747612	0.4742333	992.8855
##	2004-01-09	0.04124102	1.06769231	0.35261363	38.125673	3.5431985	985.0142
##	2004-01-22	0.13671909	1.62763636	0.42412549	35.378727	0.8852171	990.7642
##	2004-01-24	0.06509917	3.47094017	0.85503477	42.690256	2.2169451	1002.4681
##	2004-02-01	0.25916817	3.18250000	1.37633731	46.857348	3.8061743	988.3114
##	2004-02-28	0.05969435	1.04082090	0.20310762	41.598433	1.0922281	1010.3906
##	2004-03-01	0.26014777	3.32933333	1.58710202	42.272667	2.1622636	1010.6647
##	2004-03-07	0.12534953	2.20941176	0.32727781	46.925956	3.8270527	1006.1771
##	2004-03-09	0.37308366	6.56159420	3.37870408	55.580290	4.7662970	987.0045
##	2004-03-10	0.18617782	3.06312500	1.00163233	53.441172	5.9643789	991.5296
##	2004-03-14	0.19151757	4.33549296	1.35248632	53.900423	4.5082309	979.8661
##	2004-03-29	0.06403679	1.69407643	0.28498753	40.879427	3.7380530	1003.3864
##	2004-04-02	0.04829306	1.92711656	0.31478334	50.225460	3.2527802	993.4101
##	2004-04-09	0.09043428	1.61122093	0.47279834	28.066977	5.0620381	981.2382
##	2004-04-17	0.05636722	1.03425287	0.24092132	39.149253	2.1195233	995.3366
##	2004-04-24	0.07532969	1.11299465	0.39193429	34.604278	4.2930710	993.5527
##	2004-04-30	0.11125829	0.94338624	0.47899514	30.141905	6.8944901	996.4047
##	2004-05-02	0.03820580	0.65846939	0.23517523	36.548724	2.9475253	975.4600
##	2004-05-10	0.16518676	1.67795918	1.24069869	38.714184	7.3274066	981.3397
##	2004-05-19	0.06181724	2.05901639	0.34242207	39.344044	8.5017301	996.0764
##	2004-05-20	0.03999029	0.65440994	0.10579369	30.878509	4.9679979	984.3926
##	2004-05-28	0.28007560	1.92689655	0.68246528	12.607931	3.3747590	993.8416
##	2004-06-17	0.04347886	2.49492537	1.26868743	27.813881	2.3554180	972.4687
##	2004-06-19	0.02935039	0.71848485	0.08149077	31.875000	0.6719965	983.4779
##	2004-10-05	0.04408697	1.13901639	0.53356569	35.572698	0.7709278	985.1224
##	2004-10-29	0.03041799	1.34754717	0.08746220	33.808113	0.3340259	962.8757
##	2004-11-19	0.03731313	1.15730769	0.25437440	32.186154	0.5433886	974.1749
##	2004-12-18	0.03804221	2.23365385	0.47787121	30.230000	1.8730305	977.8128
##	2004-12-20	0.03391700	1.94056604	0.54756951	32.090189	1.5924769	977.0870
##	2004-12-26	0.03184785	1.96761905	0.62044915	24.787460	2.8578872	989.4041
##	2004-12-27	0.04026912	3.57343750	0.14267533	20.179688	0.7816973	975.9232
##	2004-12-30	0.04743822	4.39400000	0.23489226	17.103077	0.3808540	977.1704
##	2005-01-16	0.18800169	3.27060241	0.90651214	38.781687	0.7469839	1012.7417
##	2005-01-17	0.02484119	1.22409091	0.69830112	38.467727	0.6110792	976.4850
##	2005-01-18	0.03500297	0.76415842	0.08954627	40.659802	1.0536935	994.5067

##	2005-01-19	0.07985775	1.36504425	0.37159916	40.989027	0.9150224	978.3387
##	2005-01-22	0.11370676	1.25195122	0.31781699	44.096748	1.5448176	991.4218
##	2005-02-03	0.02757785	0.74155039	0.13954418	42.297287	1.4519823	998.2968
##	2005-02-27	0.05384205	1.30045802	0.55843030	43.205573	1.7888639	1004.0483
##	2005-03-11	0.05055277	1.11835821	0.45796082	46.691642	3.1725200	1005.9401
##	2005-03-27	0.12299011	3.71905109	0.67136810	55.494599	8.2718902	994.8850
##	2005-03-29	0.05113180	1.08388489	0.32836554	43.895252	2.1386727	984.1830
##	2005-04-01	0.13530254	3.22328571	0.86449257	41.504286	4.0686392	981.4337
##	2005-04-05	0.08205307	1.04676829	0.53905727	39.332378	4.9499978	998.1175
##	2005-04-06	0.03282606	0.68062857	0.20650110	45.254114	2.8851106	996.6275
##	2005-04-07	0.04349870	0.91629442	0.18429118	33.105178	6.7740540	995.7431
##	2005-04-28	0.05353025	1.72710660	0.51015529	35.399137	5.4219760	985.6643
##	2005-05-01	0.04741218	0.78846154	0.10869276	28.522308	4.7275642	991.8788
##	2005-05-02	0.08921055	1.58738220	0.41521517	32.285602	8.3628086	997.7174
##	2005-05-08	0.04347004	0.84668449	0.16041184	31.031070	4.4704291	992.1493
##	2005-05-11	0.07548913	1.70454545	0.43584941	35.860963	7.2793024	989.9131
##	2005-05-21	0.04795770	1.43721212	0.31967130	29.795636	3.4557997	976.0897
##	2005-06-11	0.05365419	1.50390728	0.27503690	30.081722	5.7864581	993.2764
##	2005-06-19	0.21085522	0.96874126	0.59429313	29.629860	5.5918906	1005.7649
##	2005-06-22	0.04398186	0.69764286	0.31726486	29.085071	4.3062666	1003.4249
##	2005-07-01	0.09468705	0.49806202	0.17253658	25.800930	2.8852566	972.9406
##	2005-07-08	0.04918064	1.27937008	0.16309384	29.093071	2.5062644	986.8198
##	2005-07-09	0.06248831	0.92173077	0.42982313	24.343846	2.0823932	993.6991
##	2005-07-14	0.03779112	0.70305556	0.11154029	39.680833	0.2162663	991.1444
##	2005-08-10	0.27293585	4.92060241	0.29604857	31.988675	2.0060371	982.8363
##	2005-09-01	0.04091147	0.85606742	0.07948153	34.484270	0.8336119	997.6580
##	2005-09-05	0.15549386	3.61444444	1.68905007	30.633111	2.7978767	995.6277
##	2005-09-15	0.16755225	2.70254717	0.80093881	38.166038	2.4684388	976.3915
##	2005-09-18	0.13046417	2.20801724	0.39947187	42.757328	1.9445784	1016.9672
##	2005-09-28	0.04442067	0.84107438	0.10293851	44.543719	0.8965900	968.2411
##	2005-11-26	0.07652828	1.07213115	0.21313570	40.977869	1.9027893	976.2809
##	2005-12-07	0.06047511	1.19947674	0.38029577	44.860872	4.6959877	997.4937
##	2005-12-20	0.05272521	0.82272727	0.59404805	39.124943	3.9767121	987.8508
##	2005-12-22	0.03931094	0.50446154	0.15098676	39.109949	2.7032564	1000.1621
##	2006-01-27	0.04441103	0.77766839	0.22830274	33.006062	3.5580228	1000.5839
##	2006-02-08	0.04647226	0.59409836	0.27594818	28.617268	4.1714953	1000.2319
##	2006-02-14	0.05219494	0.63670455	0.17336153	34.207386	5.0162725	992.4137
##	2006-03-06	0.05050860	1.50880503	0.36800070	44.481132	6.7764541	984.5039
##	2006-03-13	0.05637198	0.57839161	0.14395153	28.236154	6.0239938	983.5934
##	2006-03-20	0.07482158	2.53389831	0.45239918	35.467627	2.8159933	990.9768
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##	2006-07-04	0.04812870	0.26133333	0.44014742	39.927733	2.0386728	984.0307
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##	2006-08-16	0.05355061	0.09654321	0.10997640	34.986914	4.0840863	996.3487
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##	2006-09-04	0.08985705	0.62596491	0.65045647	38.083684	5.0887300	969.3865
##	2006-09-27	0.07873069	0.95782857	0.45199796	40.556171	4.3992370	987.5663
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##	2004-04-09	10.6844046	8.8094686	80.62360	2.9987886	6.0961665
##	2004-04-17	40.5245402	26.9572810	41.87718	10.4660952	18.9670498
##	2004-04-24	34.8502760	25.1076167	58.48947	10.7285934	16.7651825
##	2004-04-30	15.9325841	18.3653236	80.50365	7.4359105	13.9042138
##	2004-05-02	34.9863444	26.1996699	57.45066	7.7886609	17.7002545
##	2004-05-10	39.2390593	29.5218769	46.50184	12.6243892	19.3663644
##	2004-05-19	37.8068240	28.8679584	52.12672	11.6922669	19.8399637
##	2004-05-20	40.4534917	30.2001554	57.55528	11.5910050	20.8885021
##	2004-05-28	38.7130326	32.6045068	91.55218	0.5142582	50.1705566
##	2004-06-17	1.0994103	2.1671032	88.79657	1.8379069	2.2470270
##	2004-06-19	3.9451010	2.6379747	86.96288	1.0971134	8.9297222
##	2004-10-05	26.9601323	21.4644081	89.74113	0.7904991	23.8446032
##	2004-10-29	1.2368153	0.8903509	85.88564	1.1222646	0.3252866
##	2004-11-19	9.2882372	9.3818436	86.93654	1.0095367	10.9368590
##	2004-12-18	2.5305466	1.7173243	85.71538	0.8859015	2.6411218
##	2004-12-20	0.4894704	1.0752285	87.41245	1.1580386	1.7326480
##	2004-12-26	2.6860477	1.4230410	86.87556	1.0007365	3.0621751
##	2004-12-27	1.4329275	0.7200133	91.05415	0.6019661	1.0868912
##	2004-12-30	1.7551026	0.7315757	83.69508	0.4934481	1.0524041
##	2005-01-16	21.2986145	13.9953737	76.48048	4.8314124	15.1664859
##	2005-01-17	10.7635795	7.3624821	79.30705	3.1997601	12.2282576
##	2005-01-18	36.6129441	19.2562316	81.20089	11.4863047	27.6231856
##	2005-01-19	48.2760677	22.2900799	61.37027	17.5629441	38.5157585
##	2005-01-22	43.3658863	21.5689965	64.07472	14.5361487	39.6579973
##	2005-02-03	40.6391731	28.1981047	49.86597	8.5269215	36.2739484
##	2005-02-27	33.3762055	23.0177684	61.03183	8.1872116	31.7823028
##	2005-03-11	49.4121144	25.7229221	46.79759	13.7905198	41.9017786
##	2005-03-27	42.5279927	24.8687704	43.81482	16.3258230	35.8938200
##	2005-03-29	41.5594478	25.6488980	55.16266	15.3506016	32.4394478
##	2005-04-01	20.3380238	20.2842278	74.64857	13.0958732	18.9609881
##	2005-04-05	41.4158925	27.0554241	48.52299	11.0637032	23.5751420
##	2005-04-06	48.8115458	25.4740138	34.05663	11.2265899	27.2109924
##	2005-04-07	54.9807458	30.3541025	42.58716	18.5230690	26.8420932
##	2005-04-28	40.1780068	30.7281712	57.22792	10.7021527	22.5123410
##	2005-05-01	48.8586228	28.8382988	52.40374	12.9272487	26.5316339
##	2005-05-02	41.4736118	27.8114051	59.38257	20.8928298	24.9643777
##	2005-05-08	51.5879068	31.6933378	43.60241	14.5840684	25.2984725
##	2005-05-11	31.4655754	28.7801398	52.93306	9.3741120	17.6976985
##	2005-05-21	9.6180000	9.3715541	75.24406	12.4553847	4.7767647
##	2005-06-11	27.9188852	26.2233594	70.66503	8.5163532	15.3410044
##	2005-06-19	43.9741444	21.0149395	46.85797	12.7991330	24.9337602
##	2005-06-22	37.3851367	20.2458169	56.57193	12.3095586	19.0827586

##	2005-07-01	11.1065766	12.3239285	73.02326	10.7260764	8.2902059
##	2005-07-08	4.7036184	5.1344028	78.06535	9.5527799	2.8668026
##	2005-07-09	18.9111859	8.4783170	86.58694	0.8560306	20.6084936
##	2005-07-14	28.1825349	14.9217634	86.81000	2.4862359	38.4506279
##	2005-08-10	40.2395372	25.7948424	99.57675	0.5975276	59.1783669
##	2005-09-01	17.7707910	10.4679581	97.29146	1.4383731	31.3374011
##	2005-09-05	14.1158845	9.2245417	95.84000	0.4241290	26.4547026
##	2005-09-15	37.6402983	25.7656329	88.38830	7.7735453	34.4056044
##	2005-09-18	49.9167728	22.2608636	63.09319	11.2315729	41.7804052
##	2005-09-28	30.2532414	25.0250241	86.81008	7.8222292	36.1217631
##	2005-11-26	42.7434153	26.8631714	71.07320	12.4843329	38.0081831
##	2005-12-07	48.1543204	26.3097518	39.34287	10.9643631	28.5483188
##	2005-12-20	38.1574361	28.2671539	59.38420	16.3438236	21.6881268
##	2005-12-22	47.8853299	28.9828522	42.79026	11.6883456	29.4543787
##	2006-01-27	51.4508549	28.5245431	38.10788	13.3525791	26.7609232
##	2006-02-08	42.1102727	31.7022581	43.87851	14.6987341	22.6845545
##	2006-02-14	55.2247075	28.0385094	43.61045	11.9840755	26.9957736
##	2006-03-06	36.7702204	29.0504400	62.50266	16.2449946	21.5249633
##	2006-03-13	28.0517073	23.3946183	64.28248	11.5887832	15.6048664
##	2006-03-20	13.7516220	9.4093989	74.20026	6.7874031	7.8774189
##	2006-03-29	1.5259137	1.3007498	90.04635	0.6376527	1.3270558
##	2006-05-10	-0.1367273	0.3671380	90.28190	0.6287901	0.0000000
##	2006-05-15	24.3089364	16.5791137	54.40709	10.6508972	14.0731990
##	2006-05-16	32.9528329	24.3053776	41.99333	6.1140827	19.5550000
##	2006-05-24	15.2252511	17.5656477	65.36444	17.3646430	9.0514590
##	2006-07-04	14.2154413	12.7411452	57.45750	16.4093621	9.4639844
##	2006-07-22	37.5400222	26.9386720	48.48338	17.7441254	22.3804656
##	2006-07-28	32.4687735	24.0546933	56.32221	17.1757730	18.0928225
##	2006-08-16	39.4052263	28.6028985	41.63912	9.2083060	22.6839918
##	2006-08-17	32.2381213	19.2006333	58.47806	12.7189876	19.1421372
##	2006-09-04	28.1762231	23.3535354	64.65704	10.1269145	18.2968719
##	2006-09-27	26.0401427	25.3100504	64.77416	16.2552849	16.8479734
##	2006-09-30	28.9705410	16.8967203	38.35472	6.0609616	14.0315858
##	2006-11-24	34.0729779	25.7343060	46.95061	11.2992570	20.5858364
##	2006-12-08	38.4278938	28.6673100	63.84111	15.5980295	22.5281868
##	2007-03-27	50.4674123	27.1553434	38.61505	10.8086535	28.1024014
##	2007-04-02	46.8437209	27.4563027	31.65295	11.8112073	24.9600172
##	2007-04-04	15.8687139	17.1257060	83.29106	4.9671741	8.5278291
##	2007-04-06	19.1382860	16.7183342	78.87884	5.6023182	9.6769668
##	2007-04-11	38.7101279	30.0480318	67.22837	15.9463218	21.5600213
##	2007-04-13	38.8646241	22.7363073	57.04815	10.7068973	21.8337243
##	2007-04-18	4.3817293	5.6976274	91.04500	2.1700485	13.5488722
##	2007-04-19	4.4612064	2.5969748	88.97409	1.6001458	4.5775727
##	2007-05-14	8.3821789	5.4359789	89.36109	2.1083027	9.6679654
##	2007-05-21	44.6956463	31.2826995	73.36316	10.1484988	54.7758503
##	2007-05-22	11.0076694	7.9787336	93.14326	0.8869988	15.4560999
##	2007-07-21	44.9247849	22.5852754	35.95207	11.2172395	26.4020753
##	2007-07-29	43.3919786	23.0724599	39.24623	7.3164075	25.7101497
##	2007-08-19	47.0607470	29.1805075	47.05529	15.4137170	26.4948472
##	2007-09-06	34.1447405	26.5050847	54.68169	12.9710133	18.1819561
##	2007-09-07	23.4516869	25.4348243	71.20431	14.6410946	13.1833131
##	2008-02-19	16.5581690	12.7814090	73.89066	11.9679644	9.0821714
##	2008-04-17	20.4346609	13.5952820	60.84538	7.8829183	11.9056350
##	2008-04-23	15.4162093	9.7272851	72.56938	6.5894398	8.3506648

##	2008-04-26	28.9713263	10.4611429	71.72880	14.4585216	12.1585053
##	2008-05-03	0.8081250	0.8533054	88.23767	3.5335482	0.2748491
##	2008-05-13	3.6669745	2.4570713	90.59553	1.7965617	3.5784076
##	2008-06-18	1.5008031	2.3344597	96.50150	0.4349121	2.5601036
##	2008-06-26	42.0263734	21.6553210	86.94580	12.1782172	24.6349910
##	2008-07-09	28.2648829	17.6378145	76.37642	11.1839174	22.5298662
##	2008-07-24	18.4298726	12.1851133	92.88424	3.9344310	24.7439013
##	2008-08-09	39.0503303	24.7170575	66.30091	22.2308415	32.3794452
##	2008-08-19	44.4562565	26.2154400	71.54764	16.8727241	36.7832592
##	2008-08-30	-0.5372423	14.5681402	51.80317	3.4219786	9.6345682
##	2008-09-02	46.5202293	23.9720643	40.40297	8.3391089	31.1454367
##	2008-09-09	44.8180205	24.1426097	46.43658	14.2995562	26.8173026
##	2008-09-25	19.1037681	18.5077723	70.90314	9.4681081	11.4212532
##	2008-09-27	42.8353002	30.5619451	50.11826	16.5168030	23.9578731
##	2008-09-29	28.1711306	24.3989225	60.41833	11.9993840	13.9784575
##	2008-10-22	42.0679601	28.8668680	52.59905	8.1089951	21.9445966
##	2008-11-08	30.9270037	26.5223133	60.58789	11.4325022	16.4944156
##	2009-02-17	34.0236427	21.1558675	55.17821	9.5135525	17.6157129
##	2009-02-18	46.5265976	23.5987251	55.75318	10.6085412	23.1030862
##	2009-02-27	28.3966841	20.7202045	61.21057	11.4982792	15.6529504
##	2009-03-24	31.4773931	19.3290559	59.39078	10.1113759	18.9105379
##	2009-03-25	7.0875645	4.6584082	73.10153	5.0581765	4.2068710
##	2009-04-09	32.9245937	15.0227043	52.06250	17.5280507	18.4123881
##	2009-04-20	5.9390892	3.6529563	86.00108	4.5545981	2.3446679
##	2009-04-30	18.8225651	13.6526451	81.80241	7.0816957	8.9261323
##	2009-06-13	6.6623568	2.9064826	95.97324	0.2983659	6.6499559
##	2009-07-02	8.0731626	9.2604975	93.76029	0.4069216	12.4703563
##	2009-07-19	11.1772973	5.3409588	88.72735	1.7536985	7.8969595
##	2009-07-28	18.0600000	14.9159552	91.85881	1.6420373	18.1889607
##	2009-08-27	4.0737379	2.9075714	96.53641	0.5099311	4.1558738
##	2009-09-24	1.2807831	0.9945729	96.50267	0.3607026	2.1007530
##	2009-10-12	1.9619018	0.9696607	95.13267	0.1960126	1.6967791
##	2009-10-15	31.5546815	16.9620836	97.61574	1.6061671	20.8290446
##	2009-11-06	4.9671565	3.3991541	100.90458	0.5985442	6.6119169
##	2009-11-10	13.0975159	6.7925086	100.76702	0.8995915	14.6298722
##	2009-11-12	3.8407325	2.1163720	95.52553	0.7338250	6.6901592
##	2009-11-18	6.1131962	2.8024535	98.28489	0.8754176	6.6288608
##	2009-11-25	5.9205758	3.0250497	96.69460	1.7898982	9.0813636
##	2009-12-10	13.0906389	7.9857383	97.68109	0.5950060	26.6874167
##	2009-12-20	30.4923165	22.5477421	99.11821	1.9324917	37.5290367
##	2009-12-23	85.6199067	49.7792805	86.05784	7.7614531	134.8637481
##	2009-12-27	23.4120937	15.3747403	92.08552	3.3099986	28.7248760
##	2010-01-11	51.9879973	27.1775561	59.01857	14.8979956	41.8205376
##	2010-01-12	36.8239323	26.4154744	73.13756	11.7079649	36.4925521
##	2010-01-17	16.2774634	11.8354954	94.09227	0.6167987	21.0948721
##	2010-02-03	31.6085240	26.3097733	54.90851	14.6419037	24.6140389
##	2010-02-12	22.8415367	18.7626550	71.00972	20.5137481	15.6298998
##	2010-03-09	20.6639397	12.4535079	43.87671	7.4537561	11.5202010
##	2010-03-18	13.8420349	14.9752954	81.94159	6.8062008	8.5526619
##	2010-03-22	38.8102122	27.6864300	65.18663	12.7552840	20.5724278
##	2010-04-17	32.4284586	23.8846656	57.36337	9.4737086	17.0367669
##	2010-04-28	41.1960626	27.8595514	44.94187	13.7825996	21.6529791
##	2010-05-04	21.9575535	22.4769106	71.82475	12.6099153	11.8791030
##	2010-05-05	33.6616231	28.5060917	63.65399	13.4501430	17.2816866

##	2010-07-04	5.3384746	6.4648523	79.98759	4.3914059	4.7488827	
##	2010-07-05	24.9009988	18.0759366	69.23194	8.4841113	15.9968472	
##	2010-07-27	4.0247690	3.2818436	88.26023	1.0869679	3.9592519	
##	2010-07-29	26.9344864	17.9208377	66.49190	11.2697136	15.7401360	
##	2010-08-01	31.1257604	22.2369474	61.51846	13.3671321	18.9872043	
##	2010-08-22	3.9830455	2.0039324	96.14739	0.3306173	5.2834318	
##	2010-09-03	3.8738995	2.6266502	95.34015	0.3989576	4.8111962	
##	2010-09-05	3.4187923	1.6839491	95.02625	0.3505664	3.2688889	
##	2010-09-11	5.1810759	2.3269595	94.84979	0.5888326	6.9389873	
##	2010-09-21	5.1968690	4.1207399	106.02234	1.4443491	13.3035144	
##	2010-10-19	2.7376176	1.4576892	99.49771	0.4947737	3.9772414	
##	2010-11-13	5.0746273	2.7653103	100.37061	0.3848128	9.1495342	
##	2010-11-18	1.7997465	2.3501872	88.42315	3.7544056	2.9772958	
##	2010-11-28	6.0142234	3.1172459	93.18482	0.6311893	7.6273025	
##	2010-12-24	36.7591038	28.0602650	96.88738	2.2781923	48.7033019	
##	2010-12-29	6.9030948	4.1494210	89.99211	2.5486725	9.0833777	
##	2010-12-31	35.7135889	21.2100970	89.30753	5.2377940	36.6720392	
##	2011-01-05	10.1094667	8.7424771	82.12077	5.8077064	5.7639644	
##	2011-01-11	43.4233275	29.1394456	48.32220	8.2905297	24.5109956	
##	2011-01-14	25.4636949	27.6095096	68.09325	16.5754237	15.3798729	
##	2011-01-31	52.8119830	27.5548899	43.58435	15.5836515	27.9156851	
##	2011-02-26	43.0927493	30.6420223	47.91042	15.8538603	23.8921422	
##	2011-06-03	23.7408905	19.9092387	65.27874	9.2700139	11.6026447	
##	2011-06-19	37.2364365	26.1249347	64.89699	9.2387400	21.5898895	
##	2011-06-28	36.4333622	23.9387907	60.68619	10.1022153	17.6289124	
##	2011-07-23	27.5237955	18.2888681	65.58425	10.3945113	13.4306067	
##	2011-07-26	44.1827840	27.1060815	55.30772	12.4938687	21.4353327	
##	2011-08-16	15.0103037	15.5355970	77.76630	5.7228570	7.8642723	
##	2011-08-22	14.2183243	12.4054344	77.19349	6.0267395	8.1088324	
##	2011-08-27	41.7944157	25.5793645	59.07434	12.4272212	22.9858427	
##		RPAR.std	S02168.mean	S02168.std	SWS.mean	SWS.std	UV_A.mean
##	2000-03-30	2.8014783	0.3018032787	0.12122663	936.0000	0.7071068	0.2959368
##	2000-04-07	25.1663743	0.3162893082	0.14168763	925.6226	1.3898868	16.0775132
##	2000-04-09	25.1424158	0.1620833333	0.10687647	924.8393	1.2472047	16.6888918
##	2000-05-18	16.2208306	0.8184153005	0.35867461	920.7903	21.2919881	9.5269913
##	2000-06-11	17.8438556	2.0102272727	0.75894055	925.3611	0.8102435	18.8912658
##	2000-06-21	5.4784255	0.0080000000	0.14694070	878.8514	91.9849128	5.6936591
##	2000-06-22	17.2876544	0.0030603448	0.08926169	923.0130	0.5254949	18.4573849
##	2000-07-04	8.7512065	0.0247234043	0.09327052	922.3896	0.5655888	11.9664789
##	2000-08-12	16.2835677	0.3643220339	0.15023657	923.5641	16.6011968	18.6177441
##	2001-05-17	14.7311027	0.1152360515	0.12689277	917.5270	38.0440347	16.3012676
##	2001-05-31	15.9105814	0.0285152838	0.09225002	908.4805	61.2650863	16.4038548
##	2001-06-02	13.5808416	0.0582993197	0.11856086	921.9184	5.8943360	12.6364817
##	2001-06-13	15.6447267	0.1182524272	0.13110359	931.9577	0.8355771	21.0848252
##	2001-06-27	10.3571799	0.5178602620	0.67110099	893.2632	117.1513401	11.6956911
##	2001-07-02	6.8697935	0.0338095238	0.13652596	774.9487	161.6977216	8.8798286
##	2001-08-01	1.8061508	0.0203896104	0.11587972	903.5641	43.5190926	3.4579591
##	2003-03-23	15.4451030	0.1229914530	0.14043626	931.1923	0.8536810	22.5000375
##	2003-03-28	12.7241523	0.2172272727	0.17415692	929.4932	0.5302852	15.0020146
##	2003-04-07	12.8693519	0.0486341463	0.11514734	930.2754	1.5893400	15.8313810
##	2003-04-09	20.6460730	0.1612727273	0.20840640	931.0625	1.0994438	8.5771031
##	2003-04-22	24.8804287	0.1166972477	0.19088515	929.5714	2.5658007	11.2483675
##	2003-04-24	26.6682786	0.2082051282	0.21884735	931.0816	1.3819783	13.1060201
##	2003-04-27	25.7176356	0.1680000000	0.21460771	930.8235	1.1782340	15.1110220

##	2003-05-11	19.2585988	0.0745679012	0.16783958	928.6290	1.7389828	16.5779210
##	2003-05-14	19.8860205	0.1204242424	0.12274975	929.7879	0.8323304	18.6217558
##	2003-06-20	18.0484021	0.2243930636	0.22349836	929.3043	0.6709157	19.2659270
##	2003-07-09	18.8753106	0.1932369942	0.14852741	929.8143	0.8894365	21.1322317
##	2003-07-14	8.5526272	0.6384482759	0.59265290	866.1714	159.2627008	7.5969303
##	2003-07-22	18.6634877	0.0472105263	0.11499762	929.4286	0.8495908	19.6390026
##	2003-08-09	16.2017723	0.4133152174	0.18868364	930.8904	0.7739086	17.0902072
##	2003-09-06	14.3330492	0.1395652174	0.11859807	931.7679	0.8088392	16.6267121
##	2003-09-18	14.9849750	0.2023188406	0.22030930	931.8750	0.8325754	15.2820385
##	2003-10-15	9.3968920	0.2151879699	0.15717970	919.0189	56.5013582	7.0250351
##	2003-10-20	8.4659193	0.0880000000	0.11850097	930.4800	1.7755712	6.4144735
##	2003-10-26	15.1579603	0.0751181102	0.14157765	931.0392	0.7990190	13.0593524
##	2003-11-18	9.9361903	0.5956692913	0.48364455	928.3137	12.3150155	7.5269684
##	2003-11-22	10.4862548	0.0755445545	0.10072215	929.2750	1.3394890	7.8008647
##	2003-12-01	7.0370452	0.0449484536	0.10507065	929.8421	0.7543143	4.8006898
##	2003-12-02	2.6019140	0.1731818182	0.13063348	926.3077	0.8375789	2.4473611
##	2003-12-09	35.1207611	0.3595522388	0.09254700	921.1111	1.2810252	3.5757139
##	2004-01-09	20.0807582	0.1374038462	0.15331923	930.0000	2.9877800	7.9090770
##	2004-01-22	22.6209859	0.4405454545	0.54414960	930.5227	2.8732012	11.0591900
##	2004-01-24	10.6057886	1.2280341880	0.12156479	924.7447	4.0511302	5.5935286
##	2004-02-01	24.3839971	0.4970454545	0.33612915	929.9434	1.4730279	14.0937728
##	2004-02-28	28.0311991	0.0347761194	0.06159187	929.7593	1.8827437	16.4581439
##	2004-03-01	28.4002974	0.7720740741	0.78698470	930.9815	1.7643294	16.4676597
##	2004-03-07	28.4685061	0.3319852941	0.09255885	930.2909	2.5580137	16.6265471
##	2004-03-09	28.0732846	1.0642028986	0.21621769	931.8000	1.1122217	15.1221809
##	2004-03-10	27.2758296	0.6592968750	0.23599074	931.7037	0.8384539	16.9308945
##	2004-03-14	27.3181127	1.1466197183	0.45056133	931.1579	0.9409242	16.2805123
##	2004-03-29	14.8317092	0.4864968153	0.14160194	927.7742	0.4932115	16.6034251
##	2004-04-02	16.8078187	0.2371779141	0.13176161	929.5538	0.6381313	19.0008465
##	2004-04-09	4.9550368	0.0250000000	0.07311371	926.6812	0.6750328	7.1264008
##	2004-04-17	14.3213780	0.0990804598	0.07321095	926.5857	0.5514896	15.9520958
##	2004-04-24	14.3950923	0.0710695187	0.08667657	916.5600	52.6095357	15.3651006
##	2004-04-30	22.5203556	0.0090476190	0.05199369	913.3289	56.1446675	8.0694867
##	2004-05-02	13.8317968	0.0426530612	0.07914998	924.3205	4.9451369	15.8072265
##	2004-05-10	16.2897531	0.1625000000	0.10425007	925.8077	0.7217888	16.5768924
##	2004-05-19	15.4968883	0.2227868852	0.22126855	927.6301	13.6223946	17.4545109
##	2004-05-20	15.8309188	0.0277018634	0.06886807	925.8923	17.5117131	17.1085362
##	2004-05-28	47.0037456	-0.0024137931	0.05169152	930.5000	0.5640761	4.9173858
##	2004-06-17	1.5270530	0.0723880597	0.08971486	907.0000	40.7285504	1.4563907
##	2004-06-19	4.3890398	0.0669696970	0.07005426	921.9231	3.3096595	1.8932374
##	2004-10-05	18.0354676	0.0320967742	0.05842572	926.9600	0.7348469	2.6444233
##	2004-10-29	0.6497397	0.0566037736	0.05320293	925.4762	1.4703417	0.9771489
##	2004-11-19	8.5133400	0.0446153846	0.04240151	926.2857	1.3093073	1.7240559
##	2004-12-18	2.4464642	0.0973076923	0.05383764	924.7500	1.1641577	0.6439377
##	2004-12-20	1.4927481	0.0403773585	0.06148678	910.3810	16.7704388	0.7463427
##	2004-12-26	1.8684766	0.1014285714	0.07824398	921.4000	7.8740079	0.9694509
##	2004-12-27	1.1174508	0.0671875000	0.05738947	855.7308	106.9349551	0.5013420
##	2004-12-30	0.9524437	0.8169230769	0.14427538	907.3077	20.5752652	0.5791560
##	2005-01-16	9.7704997	0.5995180723	0.26865929	927.4706	1.8461310	5.2020843
##	2005-01-17	8.3051038	0.3575000000	0.19337445	926.0833	0.7699722	4.1951780
##	2005-01-18	16.1942505	0.1518811881	0.10485908	923.3750	2.5689218	8.9814548
##	2005-01-19	20.6535728	0.6620353982	0.38844047	926.7442	3.7422493	12.0656745
##	2005-01-22	23.1159134	0.1094308943	0.05894288	928.9184	3.1743551	13.0443424
##	2005-02-03	26.2215819	0.1309302326	0.08267445	931.6078	0.8961793	13.7289381

##	2005-02-27	21.7772359	0.3014503817	0.25492419	930.6415	1.2104408	12.2164127
##	2005-03-11	26.0390120	0.1750000000	0.21618618	931.7547	1.2695496	16.0216866
##	2005-03-27	23.6238730	0.8244525547	0.32165455	930.4225	2.6788486	13.9584962
##	2005-03-29	22.2084368	0.1054676259	0.12138824	922.9856	1.4617276	15.3132530
##	2005-04-01	17.4606736	0.4000714286	0.33468872	891.9190	65.4402938	9.5378131
##	2005-04-05	17.2518441	0.3114024390	0.11696514	922.0020	0.5977928	18.0471045
##	2005-04-06	17.1366244	0.0580000000	0.07333595	921.2758	0.5452796	20.7644437
##	2005-04-07	17.5402779	0.1064974619	0.14302639	920.7308	0.8005368	22.4402669
##	2005-04-28	18.3075927	0.0988324873	0.07991167	920.5513	0.5005824	19.4981705
##	2005-05-01	16.9489266	0.0720512821	0.08446251	920.6026	0.6312170	22.5021480
##	2005-05-02	18.4541338	0.0809947644	0.08963995	920.3766	0.6290963	18.7476162
##	2005-05-08	17.4451375	0.0195187166	0.05012118	919.2800	0.6053813	21.8927558
##	2005-05-11	16.0092604	0.1800534759	0.18003434	916.4533	18.6556950	16.0145343
##	2005-05-21	5.0443551	0.0265454545	0.06202531	908.0758	36.0471105	6.3589371
##	2005-06-11	14.8245263	0.0407947020	0.06237011	922.3667	0.5196696	13.6057152
##	2005-06-19	13.5322751	0.1732167832	0.20230573	923.0000	0.9551339	16.9516019
##	2005-06-22	11.6507309	0.0325714286	0.06294192	922.7500	0.5477226	13.8307729
##	2005-07-01	7.9883776	-0.0082945736	0.06032625	919.2115	12.9937188	7.7555694
##	2005-07-08	2.6725219	0.0597637795	0.09413318	882.7451	71.2311289	3.4669895
##	2005-07-09	10.0119518	0.0638461538	0.05667776	918.9000	0.7880689	2.0123333
##	2005-07-14	20.7878845	0.0211111111	0.06392239	920.6538	0.7971102	4.0435104
##	2005-08-10	36.8326679	2.0445783133	0.32193508	911.6471	1.7732414	5.3440927
##	2005-09-01	20.1712574	0.0026966292	0.05746074	921.2500	1.4808299	3.9912613
##	2005-09-05	17.0225254	0.4998888889	0.42616791	915.8056	1.3484265	3.4356394
##	2005-09-15	22.0878607	1.0290566038	0.45790315	914.2857	5.7943863	8.9834898
##	2005-09-18	23.7429687	0.7098275862	0.33632795	922.0652	2.5595327	12.3386252
##	2005-09-28	30.8273869	0.0325619835	0.07287580	906.2245	43.3288132	8.8769146
##	2005-11-26	25.7420588	0.1494262295	0.09654613	917.6122	2.8490958	12.7232609
##	2005-12-07	17.9772668	0.1656976744	0.11908070	921.1618	0.4766266	20.5033408
##	2005-12-20	17.0388369	0.0039204545	0.07929673	906.6714	59.8301270	17.0742441
##	2005-12-22	18.4759277	0.0445641026	0.07050766	920.3590	0.5089934	22.1273650
##	2006-01-27	17.0630954	0.0579274611	0.08053761	920.6623	0.6998193	22.1760138
##	2006-02-08	17.6328615	0.0361748634	0.05805087	919.7945	0.5999746	19.0120127
##	2006-02-14	16.9175471	0.0630681818	0.08643885	919.7324	0.6960654	21.2423849
##	2006-03-06	17.6029671	0.1360377358	0.09084706	891.5312	114.2704907	15.4047198
##	2006-03-13	14.4817322	0.0067132867	0.04904405	920.5345	0.5369020	12.4340732
##	2006-03-20	5.7919379	0.2733898305	0.21389438	921.7021	0.5483134	6.5838886
##	2006-03-29	1.6114228	0.1556923077	0.10940134	908.0385	24.0989307	0.5362259
##	2006-05-10	0.0000000	0.1295384615	0.08839596	528.1154	85.8586405	0.5514597
##	2006-05-15	10.3222961	0.2112408759	0.17719815	919.3091	1.7091554	10.3077802
##	2006-05-16	15.3270362	-0.0037226277	0.06047614	921.7636	1.7739226	13.6419479
##	2006-05-24	11.2319069	0.0041818182	0.06005169	890.8000	82.6120788	10.8580023
##	2006-07-04	8.3077977	0.0217333333	0.06406526	922.9333	2.0325042	9.4970882
##	2006-07-22	17.5199441	0.0472666667	0.08013325	905.2500	61.1302097	16.0403803
##	2006-07-28	14.8321713	0.0685430464	0.11234113	902.3167	57.3379786	13.9773925
##	2006-08-16	18.0623602	0.0653703704	0.07340130	920.7188	1.9717750	17.0992973
##	2006-08-17	12.6956249	0.2126946108	0.11358579	921.2836	0.7549026	15.5322266
##	2006-09-04	15.2780385	0.0446783626	0.11417369	912.8529	48.2704646	15.1421662
##	2006-09-27	16.2723695	0.1355428571	0.09682676	867.9143	117.1680006	14.2771094
##	2006-09-30	10.7100374	0.2488826816	0.33915109	920.7639	0.4594257	12.9131800
##	2006-11-24	16.2693094	0.1975138122	0.14025337	920.7917	0.5550663	16.6941581
##	2006-12-08	17.9580534	0.0162087912	0.06776968	892.5068	84.6688194	18.8553544
##	2007-03-27	17.4434026	0.0946596859	0.09375087	921.7895	0.9283073	22.2400929
##	2007-04-02	16.2229361	0.0609844560	0.08453035	921.4359	0.5486641	20.3215599

##	2007-04-04	9.8197060	0.0103664921	0.06922406	869.4675	133.5218871	10.2510558
##	2007-04-06	9.0738925	0.0504545455	0.07905021	882.3521	116.7980062	10.4073144
##	2007-04-11	17.3959872	0.1366025641	0.17498939	903.4032	66.6934410	17.2190768
##	2007-04-13	14.4506260	0.0131159420	0.06995098	921.4182	0.5991015	14.1284643
##	2007-04-18	8.4703214	0.4460606061	0.31323561	914.5652	9.9582131	2.9920401
##	2007-04-19	3.2737507	0.1961739130	0.09989980	919.8043	0.9802395	2.3184055
##	2007-05-14	7.0742329	0.0878260870	0.08307450	904.2391	28.9391582	3.7457229
##	2007-05-21	38.3901535	0.6341803279	0.37016601	918.7959	2.7986574	11.7418109
##	2007-05-22	12.3814634	0.1367857143	0.12356379	872.5179	90.7051148	3.0179239
##	2007-07-21	15.7120561	0.1317419355	0.10956317	923.1129	0.7266550	18.6962796
##	2007-07-29	15.5905997	0.2566666667	0.18667665	922.8548	0.5963488	18.6089444
##	2007-08-19	15.8185870	0.0800000000	0.14985805	916.8077	0.7569195	22.2907479
##	2007-09-06	14.8693717	0.1059090909	0.08460698	914.1791	13.1896715	16.0120030
##	2007-09-07	14.0201018	0.0574545455	0.08764295	917.3030	1.5587934	12.8883697
##	2008-02-19	6.7070634	0.1230985915	0.09170708	863.5000	79.8931104	8.8776549
##	2008-04-17	8.2300273	0.3066666667	0.33723857	920.1111	0.3172206	10.7841652
##	2008-04-23	6.9531142	0.1274576271	0.09903972	909.9574	34.3219777	6.8442306
##	2008-04-26	6.3225226	0.2002500000	0.14997869	917.3125	0.9310937	4.5257221
##	2008-05-03	0.9224910	0.1342307692	0.10903972	818.3226	157.0429638	1.1129138
##	2008-05-13	1.8075746	-0.0046153846	0.07025058	913.7500	3.2585919	0.9328153
##	2008-06-18	2.3861367	0.1596923077	0.11813617	910.2692	5.6182395	1.0435674
##	2008-06-26	13.0207309	0.2647311828	0.14855530	914.0263	3.3408758	7.1717846
##	2008-07-09	14.6207605	0.0746000000	0.09278432	918.1250	1.7568547	7.7215117
##	2008-07-24	16.8427579	0.4652884615	0.33285455	913.7381	1.8086449	6.0465462
##	2008-08-09	22.5158904	0.5620634921	0.25239118	917.9216	3.6542750	12.4897226
##	2008-08-19	25.1078886	0.1165625000	0.09250186	916.9804	5.8120227	13.5584804
##	2008-08-30	9.4820720	0.0700000000	0.07804822	919.2000	1.8758049	13.7592722
##	2008-09-02	18.7404673	0.0417647059	0.08070510	919.1129	2.1201982	18.3696386
##	2008-09-09	15.4520549	0.2046012270	0.18234496	919.8615	0.8817051	19.9218779
##	2008-09-25	11.0583799	0.0464795918	0.09027226	895.8205	4.0667917	10.7565499
##	2008-09-27	16.9571514	0.1032307692	0.10457732	916.1410	0.7336859	21.4894623
##	2008-09-29	12.6541593	0.0424607330	0.06968136	876.3553	47.7461912	14.3161786
##	2008-10-22	15.7566012	0.1259239130	0.11305598	896.1918	4.1821630	20.2947253
##	2008-11-08	14.6845461	0.4532222222	0.55300869	910.5278	31.4629101	15.8428033
##	2009-02-17	12.1202605	0.0682634731	0.07304877	918.6269	0.4872875	16.8432951
##	2009-02-18	13.3723809	0.4903921569	0.44810402	916.5246	0.5356167	18.4866107
##	2009-02-27	11.4669690	0.0042187500	0.07510213	918.6471	0.5224377	11.2295392
##	2009-03-24	11.9123474	-0.0003305785	0.07228340	918.5714	0.5400617	10.7779269
##	2009-03-25	2.6599323	0.2526213592	0.28910600	901.1429	2.3948260	4.0153097
##	2009-04-09	9.7575565	0.2419801980	0.09953914	918.9000	1.2362059	8.0795887
##	2009-04-20	2.4627077	0.0070454545	0.06880188	902.1429	1.7002224	3.1493055
##	2009-04-30	7.2583127	0.0871428571	0.08681196	898.7059	3.7941695	4.4579860
##	2009-06-13	2.9717742	0.0444736842	0.07544348	894.7667	19.0673639	2.1876454
##	2009-07-02	9.7481152	0.0533783784	0.07732297	899.5333	10.9473137	2.9057283
##	2009-07-19	5.5399548	0.0195890411	0.07305702	906.0667	1.0148325	2.4429662
##	2009-07-28	14.1954720	0.0577777778	0.08136550	905.9643	0.9615629	3.6545958
##	2009-08-27	3.5583379	0.0373913043	0.07973582	873.7857	74.5799880	1.1593204
##	2009-09-24	1.4626439	0.0420000000	0.07452069	916.5217	1.2383848	0.5521928
##	2009-10-12	1.3172280	0.0385454545	0.09726669	905.9524	17.2553649	0.7969387
##	2009-10-15	11.9431671	1.6313461538	0.99424625	910.8095	1.6917165	1.9813376
##	2009-11-06	4.0996413	1.5818867925	0.14609081	906.9524	9.9522670	1.3448403
##	2009-11-10	8.6867582	0.9551923077	0.12999985	912.9000	1.3726655	1.8833662
##	2009-11-12	3.6465365	0.8350000000	0.10928466	898.1429	25.6364696	1.2468981
##	2009-11-18	3.5802679	1.0807692308	0.13400097	860.9048	44.6093093	1.0904051

##	2009-11-25	5.5110555	1.3520000000	0.30931465	892.4545	26.7897053	1.2570818
##	2009-12-10	18.3281857	0.0413333333	0.06001318	915.2917	7.4277925	2.4368278
##	2009-12-20	23.1117151	3.7802777778	0.24165493	912.2414	1.1543450	3.7522706
##	2009-12-23	84.2028072	0.1347663551	0.08047437	916.6279	2.7431582	11.0820995
##	2009-12-27	20.2756191	0.0090909091	0.07333712	910.2857	19.6659604	6.8133829
##	2010-01-11	25.8159077	0.1926612903	0.15901173	916.2653	2.7520864	14.3845081
##	2010-01-12	25.3120264	0.3428906250	0.14450105	918.1765	2.1043373	12.3985130
##	2010-01-17	16.7676157	0.0629927007	0.07600663	883.0909	40.4576929	4.6901583
##	2010-02-03	19.5454192	0.2839041096	0.37210932	919.4828	0.7312901	14.6315950
##	2010-02-12	11.4774219	0.0509333333	0.09149281	830.3000	154.1107130	10.6317082
##	2010-03-09	7.6433760	0.1954216867	0.12699130	918.4242	0.5833750	11.3982570
##	2010-03-18	8.4157704	0.0916049383	0.09925758	766.6849	190.6515784	7.5473570
##	2010-03-22	15.5842397	0.1355102041	0.11429716	884.5256	12.3127263	18.3693642
##	2010-04-17	13.3026411	0.1876271186	0.19279056	916.6338	0.5408838	15.2271617
##	2010-04-28	15.7838715	1.3227272727	0.60374304	917.4085	0.5231079	16.4834478
##	2010-05-04	12.8645991	0.0474846626	0.05823901	880.4308	58.8191001	11.7531397
##	2010-05-05	15.8221509	0.0811111111	0.09709976	914.5574	15.3596057	14.8697106
##	2010-07-04	3.4111418	0.0552000000	0.07917969	910.1000	28.7512417	6.1036346
##	2010-07-05	11.3636889	0.0687769784	0.05676624	918.3571	0.5536186	12.1958773
##	2010-07-27	2.8745344	0.0692537313	0.05851067	890.3585	8.6315484	3.2496222
##	2010-07-29	10.7691669	0.1221818182	0.10563380	879.6591	2.6143004	8.7850378
##	2010-08-01	13.4678019	0.1102752294	0.09294023	880.3636	3.7731666	8.9667296
##	2010-08-22	2.4281451	0.1298648649	0.07640005	878.9333	24.4229024	1.3855750
##	2010-09-03	2.8862740	-0.0274285714	0.06971340	903.2500	1.0758287	1.5637392
##	2010-09-05	2.1047092	0.0120895522	0.07417296	873.6429	34.9509861	1.1838986
##	2010-09-11	3.9470706	0.5094230769	0.23057825	906.9048	2.7911425	0.9513323
##	2010-09-21	7.5990955	1.8576923077	0.16528781	906.4000	1.0954451	1.9869042
##	2010-10-19	2.1814468	0.5939622642	0.10168465	912.5238	0.9807674	0.8985799
##	2010-11-13	4.8591089	0.8929629630	0.25437774	912.5909	0.9591212	1.4303634
##	2010-11-18	2.9586042	0.1133333333	0.02886751	906.7826	14.1162592	0.9860141
##	2010-11-28	4.4312054	0.1527868852	0.11682082	908.2400	5.4027771	1.9132997
##	2010-12-24	36.3568104	0.3515714286	0.32076284	910.9643	2.2849288	3.6039528
##	2010-12-29	5.9911829	0.6372000000	0.12249164	912.0000	1.4500221	2.3420782
##	2010-12-31	21.8092600	0.8652941176	0.21239654	913.1463	2.6510467	8.3741387
##	2011-01-05	4.7908929	0.1544661922	0.09758700	809.1600	143.5177774	6.3341164
##	2011-01-11	16.8684379	0.0934672489	0.08712851	914.9211	0.5102459	19.7665555
##	2011-01-14	15.3992459	0.2137457627	0.09388082	881.1795	48.3025486	14.8889534
##	2011-01-31	16.4777081	0.4936680851	0.26170762	915.5256	1.2030735	22.3377889
##	2011-02-26	17.1269062	0.6398265395	0.11391535	916.7922	0.6556969	19.7820243
##	2011-06-03	10.3230780	0.3147551202	0.18211867	854.0000	103.7806939	11.9210882
##	2011-06-19	15.1616549	1.2268508287	0.66363517	915.9726	0.5520820	17.1614291
##	2011-06-28	12.4672136	0.1187186898	0.09944589	917.0725	0.3955205	15.3695650
##	2011-07-23	9.2115499	0.0984514170	0.11527128	891.4091	4.9860645	13.1485612
##	2011-07-26	14.6828863	0.2652200614	0.22089047	916.2769	0.9101458	16.9184053
##	2011-08-16	8.1281706	0.1634031414	0.10398476	915.2500	1.9023795	8.6887393
##	2011-08-22	6.3463702	0.0773729730	0.10045307	879.0323	21.7843136	8.0993935
##	2011-08-27	15.0495013	0.3946067416	0.16690295	915.3500	1.3632588	16.6702674
##		UV_A.std	UV_B.mean	UV_B.std	CS.mean	CS.std	class2
##	2000-03-30	0.1778360	0.005140000	0.003552206	0.0036580902	9.397092e-04	0
##	2000-04-07	9.9846862	0.568242497	0.451830467	0.0024932911	4.656986e-04	1
##	2000-04-09	10.5049507	0.561250773	0.451129551	0.0008505767	2.443758e-04	1
##	2000-05-18	8.5141723	0.378213725	0.406251068	0.0106547744	2.019930e-03	0
##	2000-06-11	13.6171607	0.895416450	0.789068097	0.0078364819	9.056706e-04	1
##	2000-06-21	3.4367861	0.218610932	0.153833743	0.0064679212	1.546333e-03	0

##	2000-06-22	14.9702128	0.777402659	0.780243910	0.0013155807	3.346878e-04	1
##	2000-07-04	8.5465847	0.473782783	0.440850281	0.0012122534	3.309939e-04	1
##	2000-08-12	14.0274016	0.910154831	0.857661110	0.0092530983	1.207823e-03	0
##	2001-05-17	12.2834225	0.742604087	0.717553512	0.0049108009	9.238468e-04	0
##	2001-05-31	13.7108717	0.811087554	0.782701235	0.0032970086	5.450759e-04	1
##	2001-06-02	7.6572915	0.606501085	0.463601083	0.0023364000	8.604292e-04	1
##	2001-06-13	14.4550049	0.815426128	0.707168791	0.0028283280	7.161187e-04	1
##	2001-06-27	9.1734887	0.425933421	0.400513519	0.0050785009	3.658341e-03	1
##	2001-07-02	7.7522342	0.304979692	0.312767888	0.0019759483	6.570478e-04	0
##	2001-08-01	2.4639623	0.131559335	0.119561123	0.0021664205	7.160461e-04	0
##	2003-03-23	16.0786949	1.034433844	0.924607722	0.0033085059	6.569958e-04	1
##	2003-03-28	11.7660377	0.670094631	0.640539963	0.0054850191	9.163364e-04	0
##	2003-04-07	11.7155714	0.644205979	0.580292453	0.0009563902	2.670303e-04	1
##	2003-04-09	6.4178876	0.323305432	0.283710875	0.0010761454	2.987678e-04	1
##	2003-04-22	7.3145527	0.368387240	0.287503986	0.0005956964	3.845942e-04	1
##	2003-04-24	8.4166631	0.468848461	0.377273346	0.0019627747	7.565462e-04	1
##	2003-04-27	9.0872282	0.399876160	0.307089165	0.0007145591	4.492407e-04	1
##	2003-05-11	11.9805228	0.521412927	0.456565295	0.0008911410	2.288420e-04	1
##	2003-05-14	14.0291835	0.562985628	0.510901752	0.0013073480	1.407005e-04	1
##	2003-06-20	13.0947071	0.619110068	0.515188129	0.0023790680	1.077174e-03	1
##	2003-07-09	14.3345054	0.711943973	0.607375610	0.0025507510	4.042395e-04	1
##	2003-07-14	6.7228382	0.275558857	0.312076024	0.0094293771	4.437542e-03	0
##	2003-07-22	15.4990126	0.814560538	0.761709099	0.0019941120	2.440168e-04	1
##	2003-08-09	12.5656714	0.747864828	0.662770037	0.0084405908	7.732486e-04	0
##	2003-09-06	10.5541477	0.667697136	0.532112812	0.0024289810	6.940148e-04	1
##	2003-09-18	10.2694390	0.613639303	0.500941757	0.0032889398	1.036345e-03	1
##	2003-10-15	6.3224591	0.304783668	0.312643325	0.0047059899	7.411526e-04	0
##	2003-10-20	5.8644772	0.262787597	0.279946311	0.0066691128	8.539187e-04	0
##	2003-10-26	8.2577884	0.528314564	0.415847266	0.0020617283	6.238170e-04	1
##	2003-11-18	6.2847276	0.336005774	0.321740646	0.0061665315	2.210295e-03	1
##	2003-11-22	4.5425252	0.231661386	0.162545431	0.0007549859	1.014036e-04	1
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##	2003-12-02	1.2826580	0.048015404	0.027514565	0.0016566846	3.197788e-04	0
##	2003-12-09	1.6799302	0.062805721	0.031656685	0.0011013246	8.689015e-05	0
##	2004-01-09	5.1019729	0.159679294	0.116562358	0.0012750366	8.324043e-04	1
##	2004-01-22	6.7656048	0.235603647	0.173054617	0.0024389985	4.059259e-04	1
##	2004-01-24	3.2293730	0.145210857	0.102639207	0.0072677386	4.107393e-04	0
##	2004-02-01	8.6913943	0.381272208	0.296800389	0.0023911570	3.789429e-04	1
##	2004-02-28	10.2672131	0.487303722	0.382424011	0.0007047238	1.727766e-04	1
##	2004-03-01	10.3339809	0.479826387	0.376429794	0.0026493049	6.845655e-04	1
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##	2004-05-02	12.1005085	0.655063274	0.619232036	0.0015388313	2.269783e-04	1
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##	2004-12-18	0.4032337	0.011643087	0.007525304	0.0023633387	4.076795e-04	1
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##	2005-03-29	10.2016018	0.529442326	0.430081334	0.0011738198	6.896744e-04	1
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##	2005-05-08	15.6440488	1.116090231	0.977315886	0.0025983330	7.301618e-04	1
##	2005-05-11	13.9784024	0.741939251	0.752346003	0.0052331866	7.379972e-04	1
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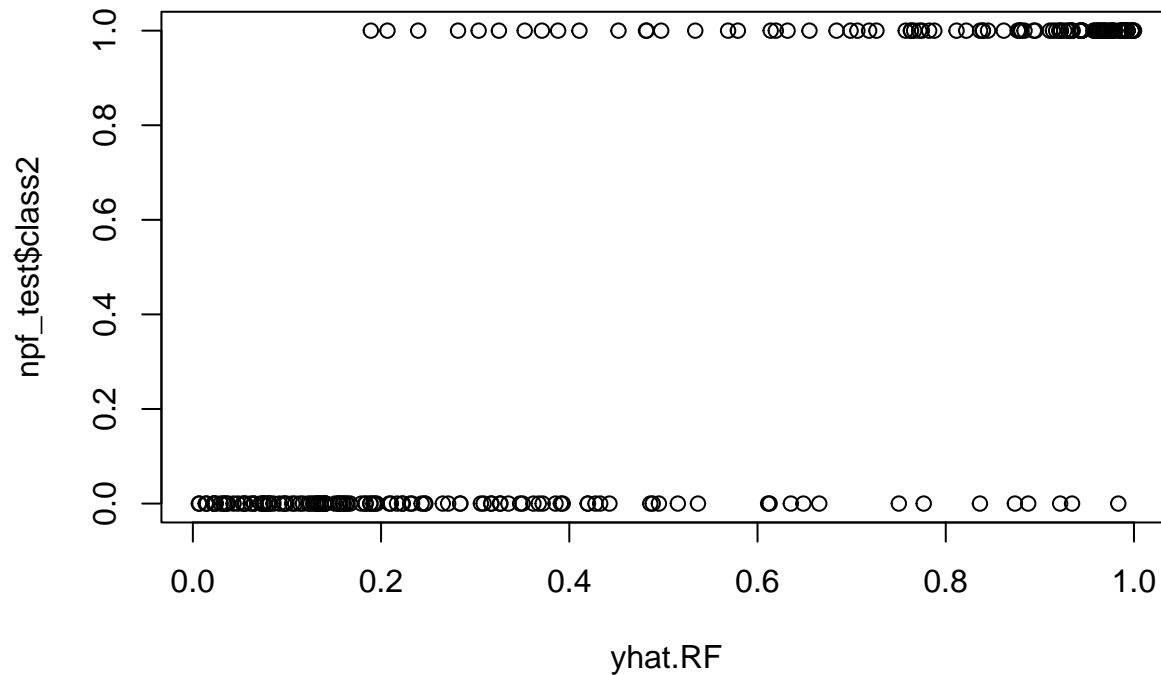
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##	2007-07-21	12.0737445	0.684962366	0.554812692	0.0016311957	3.705412e-04	1
##	2007-07-29	12.1180575	0.705363957	0.577069013	0.0028647628	4.256845e-04	1
##	2007-08-19	16.2812502	1.038181154	0.918442309	0.0014543335	4.856515e-04	1
##	2007-09-06	12.6137970	0.825377246	0.766364503	0.0026852786	8.388639e-04	1
##	2007-09-07	12.5045030	0.629173737	0.685301171	0.0021633902	7.990597e-04	0
##	2008-02-19	6.0278855	0.458485446	0.369414883	0.0021784271	8.009185e-04	1
##	2008-04-17	6.3831397	0.565616523	0.412329338	0.0019838247	3.529884e-04	1
##	2008-04-23	4.2015705	0.296804668	0.215911518	0.0017558134	6.403298e-04	1
##	2008-04-26	2.2826920	0.150122737	0.090374739	0.0021158785	2.338599e-03	1
##	2008-05-03	0.6034709	0.034096121	0.022137044	0.0028247978	3.787765e-04	0
##	2008-05-13	0.3525238	0.022650318	0.009702150	0.0003359926	1.150956e-04	0
##	2008-06-18	0.7118162	0.020722539	0.014962002	0.0024378868	6.405188e-04	0
##	2008-06-26	3.9379530	0.158249192	0.100681488	0.0012316851	2.462144e-04	1
##	2008-07-09	4.4055720	0.177829264	0.118822750	0.0005730420	3.255460e-04	1
##	2008-07-24	3.8937907	0.179143312	0.134564230	0.0022648175	5.526964e-04	0
##	2008-08-09	7.3758651	0.354978996	0.254415845	0.0012475679	2.218302e-04	1
##	2008-08-19	8.5468316	0.375101571	0.285647369	0.0012206414	9.120313e-04	1
##	2008-08-30	9.4476621	0.583723930	0.492405451	0.0011554175	2.070351e-04	1
##	2008-09-02	11.7660525	0.715099454	0.567410090	0.0007672223	1.104400e-04	1
##	2008-09-09	13.0362963	0.990075897	0.808930208	0.0016195337	3.591373e-04	1
##	2008-09-25	9.7251804	0.502846718	0.530430586	0.0045042898	5.484847e-04	0
##	2008-09-27	15.6614821	1.052760978	0.923022952	0.0047683205	1.959542e-03	0
##	2008-09-29	12.3173509	0.662563923	0.685431116	0.0026201193	3.158140e-04	0
##	2008-10-22	14.6534114	1.123563735	0.956238200	0.0040455523	5.502594e-04	0
##	2008-11-08	13.6341067	0.816058720	0.804491247	0.0052131215	1.145144e-03	0
##	2009-02-17	11.2532298	0.856225523	0.689960626	0.0039092495	3.886366e-04	0
##	2009-02-18	11.9295337	0.927914613	0.746504302	0.0041169750	9.505497e-04	1
##	2009-02-27	7.4276346	0.532396475	0.410910814	0.0006574200	1.063361e-04	1

##	2009-03-24	6.5985972	0.417773793	0.297694590	0.0005736279	1.142833e-04	1
##	2009-03-25	2.7227087	0.154589032	0.121509024	0.0013764177	1.574131e-04	0
##	2009-04-09	4.7683784	0.383715423	0.269921969	0.0011612549	4.366773e-04	1
##	2009-04-20	1.9156968	0.102934535	0.071662083	0.0005369575	9.725956e-05	0
##	2009-04-30	2.8986862	0.137411623	0.100345659	0.0024215720	4.670494e-04	0
##	2009-06-13	1.0780981	0.071676652	0.040922014	0.0009798238	9.596225e-05	0
##	2009-07-02	1.6931744	0.086097550	0.057037182	0.0004969933	1.758774e-04	0
##	2009-07-19	1.4350042	0.074163739	0.048995271	0.0006690298	1.192557e-04	0
##	2009-07-28	2.0401050	0.114737875	0.071398286	0.0012525500	4.476075e-04	0
##	2009-08-27	0.7164661	0.032140291	0.022096713	0.0014760317	4.892814e-04	0
##	2009-09-24	0.2442909	0.012493072	0.006188683	0.0034354000	2.835289e-04	0
##	2009-10-12	0.3788967	0.018189877	0.009718417	0.0019847563	2.995300e-04	0
##	2009-10-15	0.8288793	0.048451911	0.021149476	0.0020565387	2.142315e-04	0
##	2009-11-06	0.6294529	0.031053674	0.015387770	0.0034474966	1.053656e-04	0
##	2009-11-10	0.8228652	0.043833121	0.019687606	0.0031599281	2.932968e-04	0
##	2009-11-12	0.5923018	0.029644586	0.015201868	0.0012342094	5.563376e-05	0
##	2009-11-18	0.4377056	0.024631646	0.010666890	0.0017870625	3.312140e-05	0
##	2009-11-25	0.6424521	0.035038182	0.018889282	0.0022295030	1.632521e-04	0
##	2009-12-10	1.1138250	0.055855556	0.026218564	0.0008450103	1.043029e-04	0
##	2009-12-20	1.8611583	0.097426376	0.052591372	0.0073231523	4.441745e-04	0
##	2009-12-23	6.4041981	0.275270140	0.188566122	0.0009985316	1.828047e-04	1
##	2009-12-27	4.2756453	0.240912810	0.183065571	0.0012613684	2.769519e-04	0
##	2010-01-11	8.5960315	0.494530376	0.364936075	0.0008930353	4.341191e-04	1
##	2010-01-12	8.3991091	0.496360417	0.410436887	0.0040762360	3.874675e-04	0
##	2010-01-17	3.1533045	0.160616200	0.130373013	0.0032597646	8.662900e-04	0
##	2010-02-03	10.4411520	0.588622426	0.494776501	0.0022493291	1.564317e-03	1
##	2010-02-12	8.2215730	0.430756570	0.391287495	0.0010560851	3.497481e-04	1
##	2010-03-09	7.0184665	0.442434036	0.333670194	0.0012504081	1.706936e-04	1
##	2010-03-18	7.3163509	0.307008288	0.329729594	0.0066778083	2.507425e-03	0
##	2010-03-22	14.8386037	0.820255348	0.802129649	0.0056572034	3.316148e-03	0
##	2010-04-17	11.2679960	0.704180545	0.624101114	0.0060859645	7.839407e-04	0
##	2010-04-28	11.5860940	0.786147059	0.666056867	0.0126700886	3.420040e-03	0
##	2010-05-04	10.9784015	0.591936697	0.630485824	0.0033994404	8.246139e-04	0
##	2010-05-05	12.6635963	0.740338780	0.720336005	0.0027306652	3.205626e-04	0
##	2010-07-04	3.9474506	0.293761006	0.227618912	0.0008240732	4.767756e-04	0
##	2010-07-05	7.6655131	0.534630325	0.403183432	0.0016306048	4.376323e-04	0
##	2010-07-27	1.9429914	0.165331172	0.119084018	0.0051503519	7.170069e-04	0
##	2010-07-29	5.3394668	0.368555287	0.264381706	0.0039122258	1.788895e-04	0
##	2010-08-01	5.7170996	0.384327189	0.284501471	0.0053071831	9.324656e-04	0
##	2010-08-22	0.6151951	0.038150227	0.018523540	0.0010310523	3.636289e-04	0
##	2010-09-03	0.7094498	0.043627990	0.022770232	0.0015669672	7.168752e-04	0
##	2010-09-05	0.5169971	0.032203140	0.015956154	0.0008407310	8.514592e-05	0
##	2010-09-11	0.3569216	0.021440190	0.008578215	0.0024581129	1.001716e-04	0
##	2010-09-21	0.8064531	0.050125240	0.021531092	0.0027434548	2.843834e-04	0
##	2010-10-19	0.3928911	0.024831348	0.011980076	0.0021813500	8.262955e-05	0
##	2010-11-13	0.6941778	0.036220497	0.018626108	0.0035074531	5.890672e-04	0
##	2010-11-18	0.6088479	0.025028451	0.016643353	0.0015542860	3.567213e-04	0
##	2010-11-28	0.9771172	0.044266485	0.024130541	0.0011272435	2.507660e-04	0
##	2010-12-24	1.7921716	0.084675000	0.044226019	0.0019264667	2.208711e-04	0
##	2010-12-29	1.2130244	0.090870383	0.054802298	0.0061404800	1.230536e-03	0
##	2010-12-31	4.7546115	0.295969984	0.196800029	0.0062399820	1.890962e-04	0
##	2011-01-05	5.1856833	0.305229956	0.310132808	0.0029414947	3.782291e-04	0
##	2011-01-11	14.7700820	0.988528384	0.872272290	0.0017212812	6.196310e-04	1
##	2011-01-14	13.8911346	0.724498644	0.741484168	0.0029778805	7.747220e-04	1

```
## 2011-01-31 15.7945953 1.197271319 1.042756461 0.0035547042 1.284799e-03 1
## 2011-02-26 14.4069563 0.971931136 0.837505502 0.0047393235 7.058804e-04 0
## 2011-06-03 9.5327343 0.605303384 0.539925881 0.0046135850 6.673656e-04 0
## 2011-06-19 12.3288847 0.831892634 0.721733686 0.0077502798 1.454725e-03 0
## 2011-06-28 10.9897559 0.818468624 0.698630832 0.0019094048 5.666725e-04 1
## 2011-07-23 8.4641310 0.616689282 0.484763168 0.0010682148 3.425249e-04 1
## 2011-07-26 11.9294510 0.787474207 0.661421469 0.0020907286 1.524131e-04 0
## 2011-08-16 8.3207990 0.464421675 0.496816385 0.0024233667 4.249878e-04 0
## 2011-08-22 5.8519420 0.416960757 0.363890025 0.0034842315 4.570357e-04 0
## 2011-08-27 11.2162943 0.899029213 0.722552606 0.0069560551 6.054233e-04 0
```

Accuracy			Perplexity		
original	CV	LOOCV	original	CV	LOOCV
0.5	0.5646552	0.5646552	27.77601	NaN	NaN
0.5	0.5258621	0.5258621	21.34815	NaN	NaN

Random forest tested with original and 168 dataset, and accuracies and perplexities reported. Why is mtry 12?



Accuracy			Perplexity		
original	CV	LOOCV	original	CV	LOOCV
0.875	0.858	0.000	1.380	NaN	0.000
0.884	0.884	0.884	1.375	NaN	1.302