

Analyzing and Comparing Different Data Driven Methods for Hydrological Forecasting to Understand Dam Construction Requirements

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May 2023

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May 16, 2023

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Dear Dr. Al-Hammoud:

This report, entitled "Analyzing and Comparing Different Data Driven Methods for Hydrological Forecasting to Understand Dam Construction Requirements" was prepared as my 4A work term report. During my work term, I worked on projects dam reinforcement projects. These dams needed to be reinforced due to higher levels of discharge than initially expected. The purpose of this report is to gain additional understanding into how levels of hydrological discharge can be forecasted by testing data driven methods.

This report was prepared during my Co-op at Walter P Moore. I would like to thank the team at Walter P Moore, as they allowed me to work on several dam projects which inspired me to develop a report that is focused on how data driven methods for hydrological forecasting can be used to create more resilient infrastructure.

This report focuses on the numerical methods that are Multiple Linear Regression, and Extreme Learning Machines. While not being the most complicated mathematical tools that can be utilized for this type of analysis, these methods are not too challenging to apply, and allow for standard datasets to be used without much difficulty.

This report was written entirely by me and has not received any previous academic credit at this or any other academic institution. I received no outside help with the report.

Sincerely,



Henry Hughes
ID# 20792437

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Summary

It is becoming increasingly common that dams around the world are having structural issues due to poorly forecasted demand. This demand exists in the form of discharge that goes through the dams in question. There are several ways that discharge through dams is commonly forecasted. Many of these ways come in the form of empirical equations, and the rest are data driven models. In this report, two data driven models were tested, Multiple Linear Regression, and Extreme Learning Machines. The models were tested on the same dataset and compared to each other. The models performed well, and there was not much that differentiated them when analyzing the forecasts that were generated by the models. This application of statistical techniques shows the importance of using modern technology to generate streamflow forecasts, and not only rely on existing physical models.

Acknowledgements

I want to thank Professor John Quilty for allowing me to be a part of his research team, which has inspired me to write about this topic. The work his team does is fascinating, and the reason I am focused on learning more about the topic of applied machine learning and statistical analysis in hydrology.

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1.0 Introduction

1.1. General

There are many benefits to understanding how water moves. It is also beneficial to understand how the movement of that water changes over time. It allows cities to be constructed in the right location with the correct water resources assets, ensures proper flood protection measures can be put in place to protect critical infrastructure, and will allow society to function in a way that allows people to utilize the benefits of water, without the drawbacks. This is a challenge that engineers must face and use technology to better understand, so that moving forward, infrastructure can be created in the most effective way possible to serve individuals around the world.

1.2. Background

Water resources assets are critical for any society to function. Water resources assets include the rivers, lakes, and groundwater from which potable water is obtained. It also includes physical assets such as dams, water and wastewater treatment plants, desalination plants, and water distribution networks. To ensure these physical assets will be able to last into the future, their owners must be able to forecast their future demand. For dams, the demand is how much discharge will pass through the dam. Accurately forecasting this discharge will allow dams of the correct size to be constructed, increasing their longevity.

1.3. Scope and Objectives

There are several ways that discharge through a dam can be forecasted. Historically, physical methods have been used. These were primarily a function of empirical equations that would be developed from significant amounts of field testing. These equations would allow engineers to forecast discharge through specific locations in rivers so the size of a specific dam could be determined. Recently, data driven methods have been used to forecast hydrological discharge.

These methods are more efficient since they can be done with basic data. Physical methods that require lots of empirical data are difficult to come up with, particularly in a short amount of time. This report will detail and apply two data driven methods; 1. Multiple Linear Regression (MLR), and 2. Extreme Learning Machines (ELM). The results will then be analyzed, and future methods will be explored.

2.0 Multiple Linear Regression

MLR is a simple statistical tool that is used to create forecasts for a specific variable of interest, based on a number of explanatory variables. It identifies the linear relationship between a set of input explanatory variables and an output variable. The mathematical model allows the output variable to be forecasted into the future by utilizing a linear equation that projects the dependent variable.

2.1. Multiple Linear Regression Formulas

The general formula for MLR can be shown in Equation 1 below.

$$y = a_0 + a_1x_1 + a_2x_2 + \dots + a_nx_n$$

Equation 1: MLR General Equation

In Equation 1, y is the dependent variable, or the output. This variable can be linked to the n independent variables, which are represented by x_i . Each of these independent variables are weighted by their coefficients a_i . The coefficient a_0 is a correction term, which allows the curve to be properly fitted. The coefficients are what define the relationship between each independent variable x_i and the dependent variable y .

To determine whether an independent variable is correlated to the dependent variable in a significant way, a p-value can be used. In linear regression, a p-value of one means that the

independent variable in question is perfectly correlated with the dependent variable. A p-value of zero means there is no correlation between the independent and dependent variables. The p-value is calculated based on a t-test of the estimated coefficient, which compares the estimated coefficient to the standard error of the estimate.

The goal of MLR is to determine the values for the coefficients a_i such that the function in equation one above best fits the data, which is typically done by minimizing the sum of the squared errors between the actual values of the dependent variable and the predicted values of the dependent variable. This can all be done using basic tools such as Microsoft Excel or Python.

2.2. Variable Dependency

A benefit to MLR is that there is not any connection between the independent variables in the equation. However, it is important to analyze the variables in a way that results in a model that is statistically efficient. This means that multicollinear variables should not be included in the model, and all variables should be statistically significant.

2.3. Common MLR Use Cases

MLR is a common statistical technique that has been used for a wide variety of applications. One reason for this is that MLR is a very accessible tool that anyone can apply if they have a complete dataset. Microsoft Excel has a built-in set of tools for using MLR, meaning that it is often a tool people turn to when they have a dataset and are looking to create a meaningful forecast with it.

3.0 Extreme Learning Machine

An ELM is an algorithm that can be used to develop data forecasts. It is a single layer feedforward neural network. The idea behind an ELM is to randomly select a set of hidden neurons and compute their output weights analytically. ELM algorithms are usually used for regression-based models.

While being quite straightforward, ELM has been shown to be an effective technique for forecasting. The main benefit of the ELM method is that it is computationally efficient since it does not require backpropagation to train the neural network (Yaseen et al., 2016).

3.1. ELM Mathematics

An ELM has a few different components, including an input layer, a layer of hidden neurons, and an output layer. The general structure can be seen in [Figure 1](#) below.

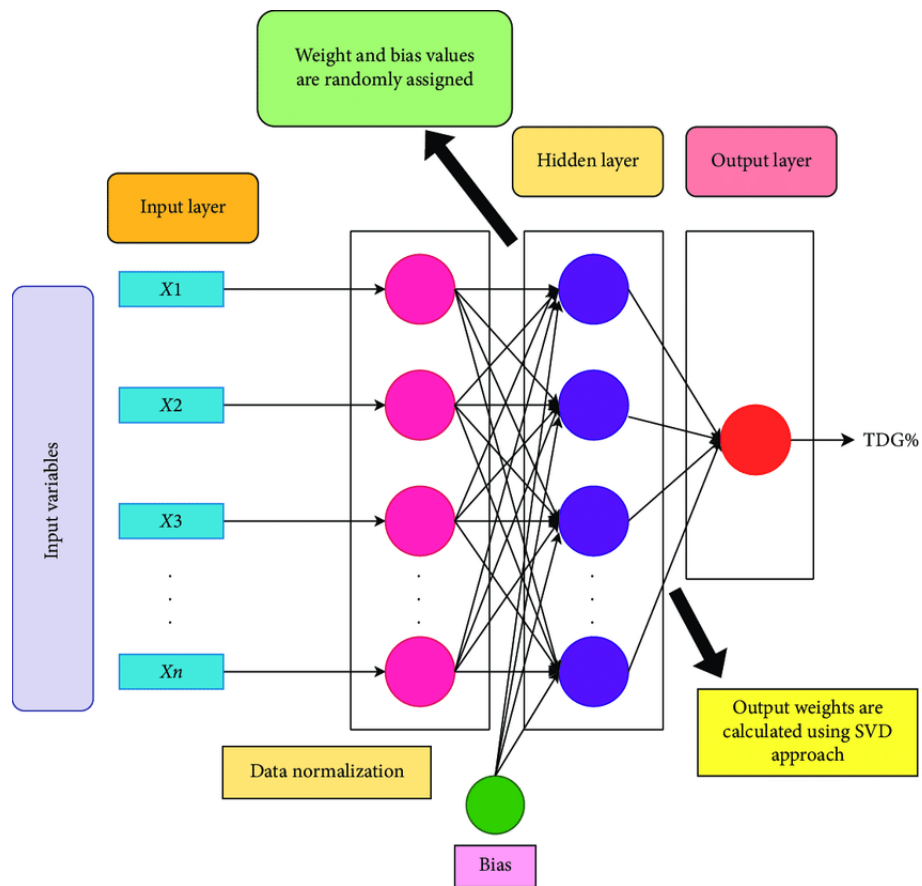


Figure 1: ELM Network Structure (AlOmar et al., 2020)

Looking at the general structure of the ELM begs the question; how are the weights and biases computed? In an ELM, these weights and biases are randomly assigned. After this has been completed, the hidden layer output matrix H can be computed by using an activation function of

choice, as shown below in Equation 2. This paper will consider the sigmoid activation function (You, 2023).

$$H = \begin{matrix} & g(w_1 \cdot x_1 + b_1) & \cdots & g(w_L \cdot x_1 + b_L) \\ & \vdots & \cdots & \vdots \\ & g(w_1 \cdot x_N + b_1) & \cdots & g(w_L \cdot x_N + b_L) \end{matrix}$$

Equation 2: Hidden Layer Output Matrix

The variables and functions in Equation 2 are explained below (You, 2023).

$W = [w_1, \dots, w_L]_{p \times L} \rightarrow A \text{ matrix collection of hidden layer weights}$

$b = [b_1, \dots, b_L]^T \rightarrow A \text{ vector of biases}$

$X = [x_1, \dots, x_N]_{N \times p}^T \rightarrow An \ N \times p \text{ matrix of explanatory variables}$

$g = \frac{1}{1 + e^{-x}} \rightarrow The \text{ sigmoid activation function}$

$L \rightarrow Number \text{ of hidden nodes}$

$N \rightarrow Number \text{ of instances of explanatory variables}$

$p \rightarrow Number \text{ of explanatory variables}$

Once the above variables have all been defined, either randomly or through the datasets in question, the H matrix can be computed. Once this has been done, the output weights must be calculated using the Moore Penrose Pseudo Inverse matrix method as shown in Equation 3 below (You, 2023).

$$\beta = H^+ y$$

Equation 3: Output Weight Equation

The variables and functions in Equation 3 are explained below.

$\dagger \rightarrow$ Represents Moore Penrose Pseudo Inverse matrix multiplication

$y = [y_1, \dots, y_N] \rightarrow$ A vector of dependent variables

Once the output weight vector β has been computed, predictions can be made using new input data as shown in Equation 4 below (You, 2023).

$$\hat{y} = H_{new}\hat{\beta}$$

Equation 4: New Forecasts

The variables in Equation 4 are explained below.

$H_{new} \rightarrow$ An rxL matrix computed using the x vectors that need forecasts

$r \rightarrow$ The number of instances where forecasts are needed

$L \rightarrow$ The same number of hidden nodes used during training

$\hat{\beta} \rightarrow$ The output weight vector learned during training

It should be noted that the same weights and biases used in training will be used during the forecasting process. Once the variables are computed, forecasts can be created.

The actual application of the ELM algorithm is straightforward when using Python, as there are functions that exist which will do most of the mathematics once a clean dataset has been obtained.

3.2. ELM History and Prior Applications

ELM was first proposed by Huang et al in 2006. It was proposed since it is a much more computationally efficient method than other neural network algorithms (Yaseen et al., 2016). However, it has been criticized as being less effective than other deep learning techniques. This is mainly because the initial biases and weights are randomly set and are not trained through

backpropagation. Additionally, the trainable portion of the neural network follows a similar structure to that of multiple regression. Essentially, the coefficients are determined in a similar way to regression coefficients (Ye, 2020).

ELM has previously been used in hydrology, most notably by Professor John Quilty at the University of Waterloo. Several papers have been published by him that focus on ELM and other machine learning techniques for streamflow forecasting. In a paper that focused on the application of ELM for streamflow forecasting in a semi-arid region of Iraq, it was stated that data driven models are useful in hydrology because they do not require physically based models and parametric assumptions, which can often be hard to develop. This paper tested ELM to combat overfitting and slow training times that were an issue with other types of neural networks (Yaseen et al., 2016).

The paper concluded that ELM did a better job forecasting the data than a Support Vector Regression (SVR) model and a General Regression Neural Network (GRNN) across several metrics, proving its viability in the hydrological space (Yaseen et al., 2016).

4.0 Development of Dataset

To apply the MLR and ELM methods described in the prior sections of this report, one needs data that can be used to create a forecast. The data from the project at Walter P Moore is specific to a client and is not available for public use. That specific project focused on data for the Brazos River in Texas and included things such as rainfall and discharge amounts from areas near the dam of interest. Since that dataset cannot be used, a sample dataset has been obtained, and can be found in 4.1Section 4.1: Dataset of Choice.

4.1. Dataset of Choice

To test the MLR and ELM methods, a dataset was used that was found online (HAMITOUCHE, 2021). The data was similar to what was used for the project that Walter P Moore completed. To analyze the data, Python was used, along with the Pandas and Matplotlib packages.

The data was taken from Spain. There are three rainfall measurements, and six discharge measurements. The Gramenet discharge lies below the rest of the measurements of interest in terms of elevation, therefore it is the dependent variable. This is because the water from the other discharges and the precipitation will contribute to the Gramenet discharge. The other explanatory variables will be used to forecast it.

Table 1 shows the data from the first four explanatory variables, and Table 2 shows the data from the final four explanatory variables and the output variable, the Gramenet discharge. They have been split so the tables remain readable. The data continues until December 31, 2010, and it can be seen in Appendix A: Original Dataset.

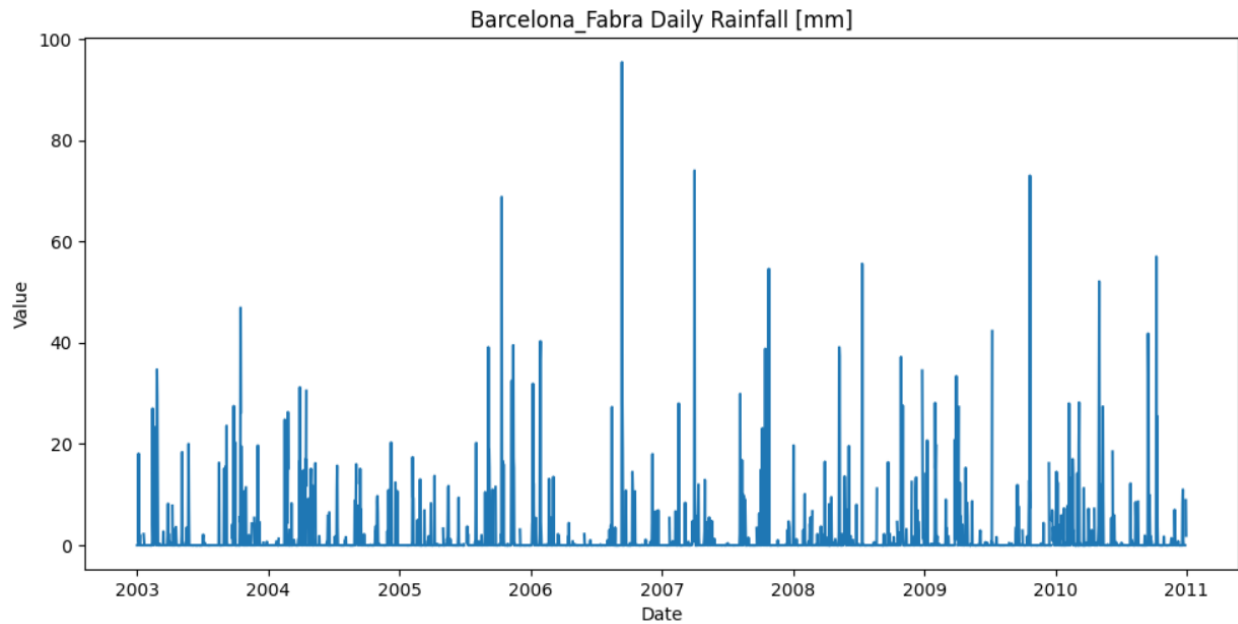
Table 1: First Four Explanatory Variables

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m ³]
1/1/2003	0	0	0	0.254
1/2/2003	0	0		0.254
1/3/2003	0	0		0.246
1/4/2003	0	0	0	0.251
1/5/2003	18.1	16.4	2.1	0.241
1/6/2003	1	0.2	4.3	0.644
1/7/2003	0	0.5		0.317
1/8/2003	2.1	1.1		0.314
1/9/2003	0	0		0.309

Table 2: Final Four Explanatory Variables, and Output Variable

Date	Castellar Discharge [m ³]	Llica Discharge [m ³]	Montornes Discharge [m ³]	Mogoda Discharge [m ³]	Gramenet Discharge [m ³]
1/1/2003	0.0327	0.155	0.3985	0.12	3.6275
1/2/2003	0.0281	0.151	0.3745	0.106	3.9471
1/3/2003	0.0225	0.145	0.375	0.101	4.0174
1/4/2003	0.03	0.145	0.372	0.099	3.9316
1/5/2003	0.0328	0.146	0.3686	0.097	3.7913
1/6/2003	0.0559	0.205	1.0558	0.516	7.6332
1/7/2003	0.039	0.168	0.6	0.189	4.6152
1/8/2003	0.0386	0.163	0.519	0.159	4.7008
1/9/2003	0.0315	0.158	0.4775	0.138	4.4481

A sample graph of the Barcelona_Fabra Daily Rainfall [mm] time series can be seen in [Figure 2](#) below. The rest of the graphs for the input variables can be seen in Appendix B: Graphs of Independent Variables.

*Figure 2: Barcelona_Fabra Daily Rainfall*

4.2. Data Cleaning

As can be seen in [Table 1](#) and [Table 2](#), the data is not perfect as there are many missing values. It is important to understand what missing values mean, so they can be dealt with in a reasonable manner. These are easy to evaluate in Python. A heatmap can be used to show how many values are missing. This can be seen in Figure 3: Heatmap of Missing DataFigure 3 below.

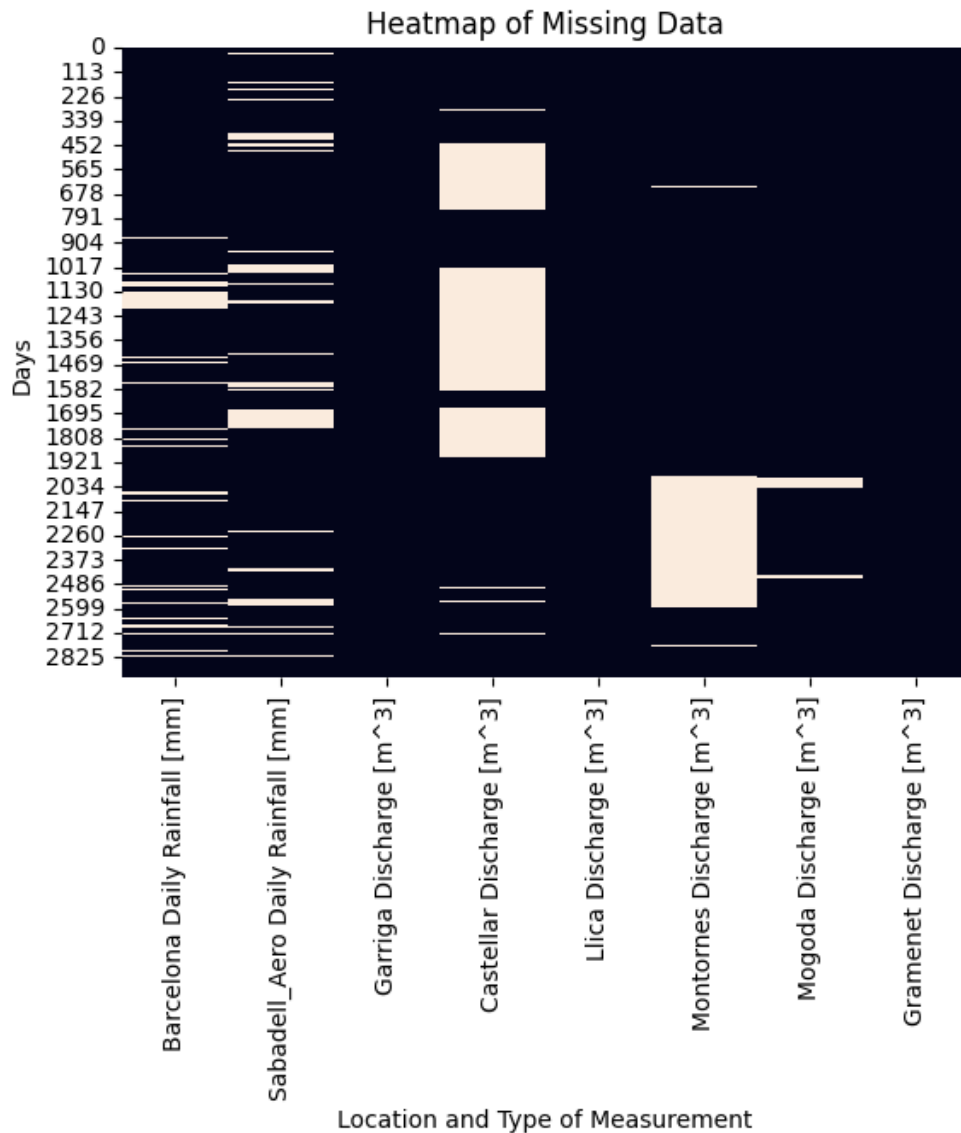


Figure 3: Heatmap of Missing Data

As can be see in [Figure 3](#) above, the Castellar and Montornes measurements are missing a lot of data. As a result of this, they have been entirely removed from the dataset. This leaves the dataset with two less explanatory or input variables. The new data structure can be seen in [Table 3](#) below.

Table 3: New Data Structure

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_A ero Daily Rainfall [mm]	Garriga Discharge [m ³]	Llica Discharg e [m ³]	Mogoda Discharge [m ³]	Gramenet Discharge [m ³]
1/1/2003	0.0	0.0	0.0	0.254	0.155	0.120	3.6275
1/2/2003	0.0	0.0	NaN	0.254	0.151	0.106	3.9471
1/3/2003	0.0	0.0	NaN	0.246	0.145	0.101	4.0174
1/4/2003	0.0	0.0	0.0	0.251	0.145	0.099	3.9316
1/5/2003	18.1	16.4	2.1	0.241	0.146	0.097	3.7913

Finally, any rows that included null data were removed. This resulted in 2076 data points that can be utilized to run the simulations. To properly run MLR and ELM simulations, complete datasets are key. Even though the dataset used was not complete initially, modifications were done to make the dataset complete and ready for evaluation.

5.0 Application of and Analysis of MLR

MLR is not a technique that can be used on all datasets. For MLR to be effective, there needs to be a linear or consistent relationship between the explanatory or input variables, and the output variables. The reason for this is quite simple and can be demonstrated by analyzing [Equation 1](#) [Equation 1: MLR General Equation](#).

For example, if the output variable y is streamflow discharge, and the input variable x_1 is the rainfall in a nearby basin, then as the rainfall increases, the discharge will also increase, assuming

the coefficient for the input variable x_1 is positive. Therefore, for MLR to be effective, the input variables need to affect the output variable in the same way throughout the dataset. This can be checked by plotting the input variables against the output variable. [Figure 4](#) below shows the relationship between the input variable Barcelona_Fabra and Gramenet Discharge variables. The Gramenet variable is in orange.

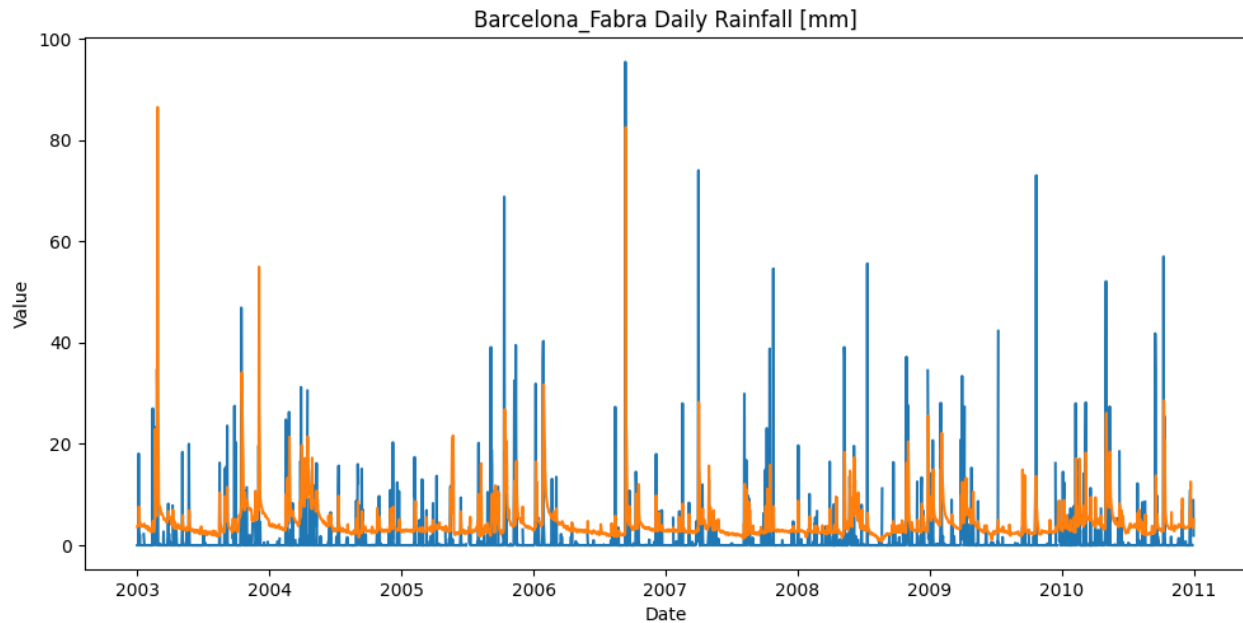


Figure 4: Barcelona_Fabra Daily Rainfall vs Gramenet Discharge

Generally, as the input variable goes up, so does the output variable. This means that MLR will be applicable to this input variable. Overall, all six of the input variables have similar relationships to the output variable. This is shown in [Appendix C: Graphs of Independent Variables vs Gramenet Discharge](#). Therefore, MLR can be applied to all the variables in question.

5.1. Data Splitting

To apply MLR to a dataset, it is important to split the data. The reasoning for this is quite simple. An equation will be produced that allows the output variable to be forecasted using the input variable. It is important to think about how the equation can be tested. The best way is to have

additional data where the input variables can create a forecast, and the forecast can be compared against the actual results. This can be done by splitting the existing data into two groups, which include 1. Training data, and 2. Test data. The training data can be used to generate the coefficients, and the test data can be used to check how effective the MLR equation was.

In Python and Pandas, it is easy to split the dataset. The following code was used, where x and y are the input and output variables that are being split, respectively.

```
x_train, x_test, y_train, y_test = train_test_split(
    x, y, test_size=0.2, random_state=101)
```

It should be noted that random state means that the results will be reproducible if the code is run again. The test size is the amount of data that is used for testing, so 20% of the data is used for testing and 80% is used for training.

5.2. MLR Results

In Python, there are packages that allow MLR simulations to be easily completed. The following code was used to generate predictions:

```
# Create a linear regression model and train it using the training data.
model = LinearRegression()
model.fit(x_train, y_train)

predictions = model.predict(x_test)
```

The model was trained based on the input matrix x_train which contained independent variables, and a vector y_train which contained dependent variables. The model was used to forecast the output variables for the set of data x_test. To see how accurate the model was, it can be plotted as shown in [Figure 5](#) below.

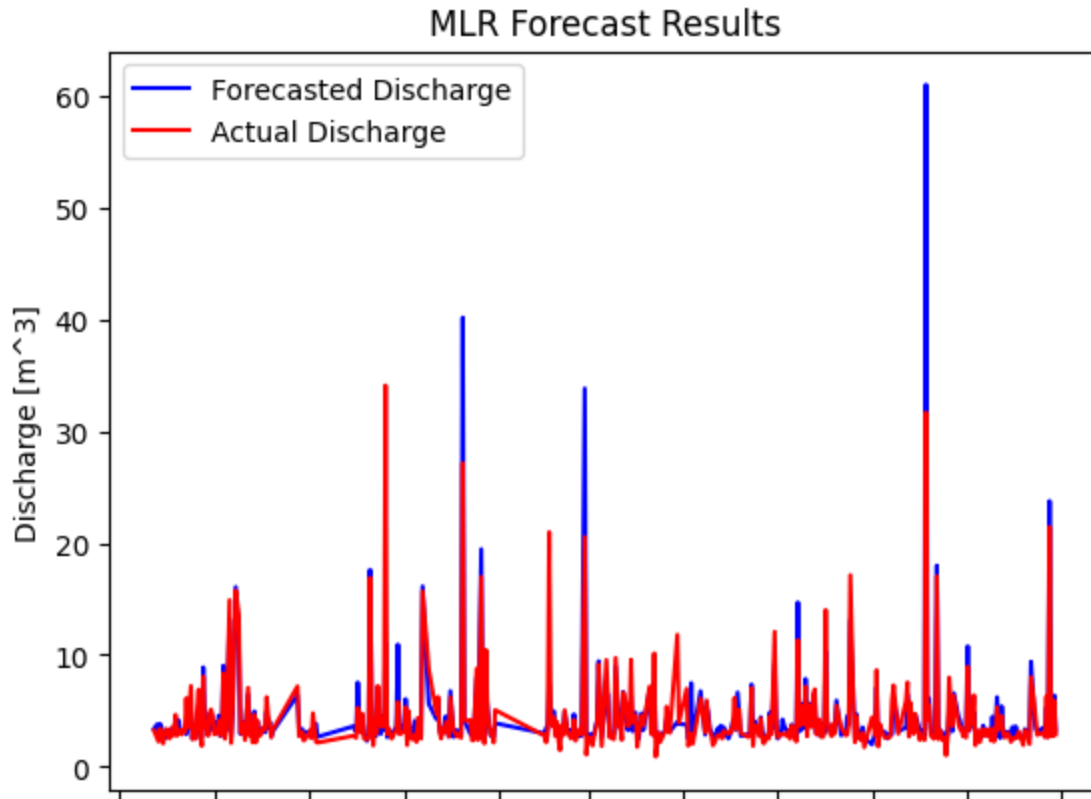


Figure 5: MLR Forecast Results

As the figure shows, the forecast is fairly accurate. The results can be further quantified by using two key metrics; 1. Root Mean Squared Error (RMSE), and 2. Mean Absolute Error (MAE). These have been computing using the Python package Sklearn and can be seen in [Table 4](#) below.

Table 4: MLR Results

MLR Results	
MSE	MAE
2.383	0.851

6.0 Application and Analysis of ELM

The application of ELM is based entirely off Section 3.1: [ELM Mathematics](#). While performing the required math would be difficult without relevant tools, Python makes the application of ELM

on data simple. This report will use a tutorial online that showed how ELM can be applied using common Python packages (You, 2023).

The data that will be used for training is the same as what was used to train the MLR algorithm. This is fully explained in Section 5.1 Data Splitting. Similarly, the same data that was used to test the MLR algorithm will be used to test the ELM algorithm.

It should be noted that the number of hidden nodes is a variable that must be specified. This defined several the mathematical quantities that have been outlined in Section 3.1: ELM Mathematics. To come up with the most effective number of hidden nodes, a loop was created that ran through zero hidden nodes, to 100 hidden nodes. After this was done, it was determined that 62 hidden nodes resulted in the most accurate forecast. The code is included in Appendix D: Python Code

6.1. ELM Results

The results of the ELM algorithm are visualized below in Figure 6. The RMSE and MAE metrics are shown below in Table 5.

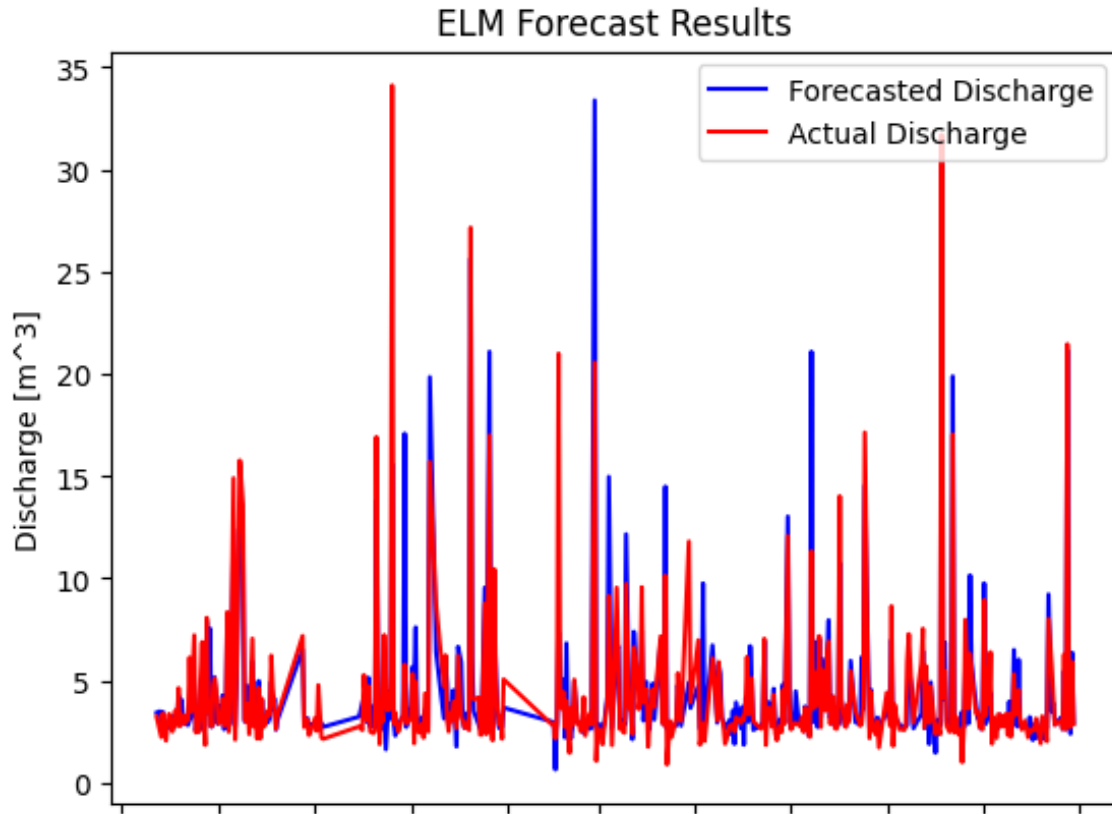


Figure 6: ELM Forecast Results

Table 5: ELM Results

ELM Metric Results	
MSE	MAE
1.908	0.874

7.0 Conclusion and Recommendations

From the literature, it is clear data driven forecasting methods have a place in hydrology. This paper outlines and applies two data driven approaches to hydrological forecasting. Both methods were effective in creating a coherent forecast that to the human eye and do a reasonable job when compared to the actual results.

The pros and cons of different machine learning models should be considered by anyone looking to use them for a numerical application. A few things that should be considered include 1. Data complexity, 2. Required speed, 3. Data correlation, and 4. Desired computational efficiency. Once a model is chosen, it can be used to create discharge forecasts that will allow the structural integrity of something like a dam to be quantified.

Moving forward, more types of machine learning models should be tested on hydrological data to see which ones are the most effective. This could include Support Vector Machine algorithms, and Gradient Boosting Algorithms. Further testing will dictate which methods are proven to be effective, and which ones should be avoided in the future. This will allow critical water infrastructure such as dams to be constructed in a way that will increase their longevity and reduce uncertainty for all people living near them for years to come.

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Appendix A: Original Dataset

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
1/1/2003	0	0	0	0.254	0.0327	0.155	0.3985	0.12	3.6275
1/2/2003	0	0		0.254	0.0281	0.151	0.3745	0.106	3.9471
1/3/2003	0	0		0.246	0.0225	0.145	0.375	0.101	4.0174
1/4/2003	0	0	0	0.251	0.03	0.145	0.372	0.099	3.9316
1/5/2003	18.1	16.4	2.1	0.241	0.0328	0.146	0.3686	0.097	3.7913
1/6/2003	1	0.2	4.3	0.644	0.0559	0.205	1.0558	0.516	7.6332
1/7/2003	0	0.5		0.317	0.039	0.168	0.6	0.189	4.6152
1/8/2003	2.1	1.1		0.314	0.0386	0.163	0.519	0.159	4.7008
1/9/2003	0	0		0.309	0.0315	0.158	0.4775	0.138	4.4481
1/10/2003	0	0		0.309	0.0327	0.153	0.419	0.13	4.3258
1/11/2003	0	0	0.5	0.269	0.0324	0.147	0.374	0.125	3.9437
1/12/2003	0	0	0	0.259	0.0326	0.144	0.3684	0.111	3.6819
1/13/2003	0	0	0	0.259	0.0369	0.138	0.4548	0.111	3.918
1/14/2003	0	0	0	0.264	0.0311	0.136	0.3755	0.118	3.9258
1/15/2003	0	0	0	0.254	0.032	0.134	0.4443	0.115	4.0599
1/16/2003	0	0	0	0.251	0.0314	0.134	0.4105	0.115	3.951
1/17/2003	0	0	0	0.231	0.0311	0.136	0.4418	0.111	3.891
1/18/2003		0	0	0.241	0.0363	0.132	0.374	0.108	3.6617
1/19/2003	2.2	5	1.4	0.236	0.0366	0.137	0.4113	0.118	3.7636
1/20/2003	1.2	0.8	2	0.236	0.0294	0.132	0.419	0.12	3.891
1/21/2003	0	0	0	0.251	0.0327	0.137	0.432	0.133	4.2605
1/22/2003	0	0	0	0.212	0.0282	0.132	0.3765	0.106	3.8531
1/23/2003	0	0	0	0.201	0.0275	0.127	0.374	0.097	3.8248
1/24/2003	0	0	0	0.192	0.025	0.125	0.3718	0.094	3.7537
1/25/2003	0	0	0	0.192	0.0276	0.124	0.3684	0.097	3.593
1/26/2003	0	0	0	0.183	0.0307	0.121	0.363	0.09	3.3292
1/27/2003	0	0	0	0.183	0.0202	0.116	0.3567	0.081	3.4093
1/28/2003	0	0		0.222	0.0193	0.118	0.3616	0.085	3.6273
1/29/2003	0	0		0.183	0.0225	0.12	0.3644	0.094	3.7451
1/30/2003	0	0		0.192	0.0235	0.077	0.363	0.104	3.4239
1/31/2003	0	0		0.187	0.0245	0.076	0.3539	0.24	3.6944
2/1/2003	0	0		0.183	0.0261	0.074	0.3422	0.195	3.1592
2/2/2003	0	0		0.172	0.024	0.073	0.3396	0.186	2.9032
2/3/2003	0	0		0.157	0.0253	0.072	0.3319	0.118	3.2394
2/4/2003	0	0	0	0.161	0.0183	0.07	0.3168	0.064	3.4481
2/5/2003	0	0	0	0.159	0.0186	0.066	0.3308	0.077	3.2706
2/6/2003	0	0	0	0.159	0.0223	0.065	0.3181	0.056	3.1497
2/7/2003	0	0	0	0.145	0.0247	0.063	0.3124	0.056	3.2968
2/8/2003	0	0	0.1	0.137	0.0229	0.065	0.3083	0.048	2.7691
2/9/2003		0	0	0.133	0.0215	0.064	0.2927	0.044	2.5629
2/10/2003	0	0	0	0.133	0.0195	0.059	0.3148	0.043	2.9599
2/11/2003	0	0	0	0.133	0.0213	0.05	0.3049	0.044	2.998
2/12/2003	0.6	0.1	0.8	0.141	0.0249	0.053	0.3571	0.046	3.1597
2/13/2003	27	21	19.1	0.151	0.0234	0.053	0.3287	0.056	4.2208
2/14/2003	4.2	3.2	1.5	0.145	0.0277	0.053	0.332	0.085	4.8252
2/15/2003	0.2	0	0.5	0.133	0.029	0.037	0.305	0.06	3.0068
2/16/2003	0	0	0.2	0.131	0.0258	0.034	0.2921	0.048	2.6047
2/17/2003	0.7	0	0.6	0.127	0.0272	0.02	0.2877	0.052	2.9438
2/18/2003	1.4	1.2		0.139	0.0254	0.031	0.3353	0.077	3.5157
2/19/2003	23.3	14.1		0.261	0.0364	0.091	0.7245	0.324	5.4025
2/20/2003	15.7	8.3		1.393	0.1823	0.226	1.806	1.01	22.9492
2/21/2003		0		1.589	0.0631	0.226	1.4191	0.461	17.8199
2/22/2003	2.2	4.6	4.6	1.215	0.0511	0.203	1.2444	0.195	7.0729

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
2/23/2003	0	0	0.3	0.97	0.0434	0.198	1.0479	0.148	5.7063
2/24/2003	2.2	1	1.7	0.783	0.0414	0.199	1.1146	0.138	5.7638
2/25/2003	34.7	16.7	28.8	0.854	0.0632	0.22	1.0715	0.61	9.14
2/26/2003	29	7.5		19.776	7.8808	0.455	4.6426	2.501	86.3216
2/27/2003	13.3	9.1		11.888	2.8252	0.415	11.8325	3.586	86.4959
2/28/2003	0	0		2.611	0.4055	0.3	2.8317	1.563	28.013
3/1/2003	0	0	0	1.879	0.1373	0.257	1.6425	1.063	17.6048
3/2/2003	0	0	0	1.526	0.1094	0.219	1.5374	0.706	7.8734
3/3/2003	0	0		1.383	0.097	0.181	1.4955	0.573	7.8325
3/4/2003	0	11.5		1.235	0.0883	0.17	1.4549	0.49	7.5115
3/5/2003	0.3	11.7	0.5	1.185	0.0939	0.17	1.4678	0.465	7.5726
3/6/2003	0	0	0	1.092	0.0882	0.17	1.4152	0.39	7.3248
3/7/2003	0	0	0	1.016	0.0817	0.17	1.3724	0.36	6.983
3/8/2003	0	0	0	0.867	0.0808	0.17	1.3672	0.313	6.4419
3/9/2003	0	0	0	0.738	0.0775	0.17	1.3243	0.286	6.0365
3/10/2003	0	0	0	0.679	0.0712	0.17	1.2717	0.276	6.2801
3/11/2003	0	0		0.641	0.0683	0.17	1.2047	0.276	6.1715
3/12/2003	0	0		0.609	0.0661	0.17	1.1491	0.243	6.1027
3/13/2003	0	0	0	0.546	0.0628	0.17	1.1025	0.225	5.8266
3/14/2003	0	0	0	0.507	0.0623	0.17	1.0386	0.207	5.6244
3/15/2003	2.7	0	1.9	0.474	0.0638	0.17	0.9718	0.201	5.4682
3/16/2003	0	0	0	0.407	0.0658	0.17	0.8979	0.216	5.0626
3/17/2003	0	0	0	0.395	0.0636	0.17	0.7188	0.207	5.1862
3/18/2003	0	0	0	0.413	0.0633	0.17	0.6759	0.189	5.1046
3/19/2003	0	0	0	0.38	0.0629	0.17	0.6776	0.184	5.1065
3/20/2003	0	0		0.371	0.0585	0.17	0.6634	0.181	5.0217
3/21/2003	0	0		0.38	0.059	0.17	0.9236	0.153	5.1509
3/22/2003	0	0	0	0.342	0.0555	0.17	0.8544	0.148	4.8651
3/23/2003	0	0	0	0.325	0.0538	0.17	0.6172	0.135	4.4748
3/24/2003	0	0	0	0.317	0.0526	0.17	0.4744	0.13	4.4896
3/25/2003	0	0	0	0.311	0.053	0.17	0.5071	0.133	4.6539
3/26/2003	0	0	0	0.311	0.0543	0.17	0.9316	0.13	5.0472
3/27/2003	1.9	0.8	2.8	0.317	0.0488	0.163	1.0559	0.135	5.1775
3/28/2003	8.2	2	10	0.536	0.0755	0.163	1.1437	0.313	6.7569
3/29/2003	0	0.1	10.3	0.604	0.0668	0.163	1.2585	0.303	6.3654
3/30/2003	2.3	2.4	1.3	0.423	0.0557	0.163	1.0982	0.207	5.5142
3/31/2003	0.4	1.1	1.3	0.395	0.0573	0.163	1.0313	0.21	5.4785
4/1/2003	0	0	0	0.362	0.055	0.163	1.1596	0.186	5.5266
4/2/2003	0.7	2.1	0	0.368	0.0569	0.163	1.2005	0.178	5.4983
4/3/2003	0	0	0	0.413	0.0509	0.159	1.1691	0.151	5.3947
4/4/2003	0	0	0	0.322	0.0454	0.158	1.0301	0.135	5.12
4/5/2003	0	0	0	0.292	0.0428	0.149	0.7731	0.125	4.538
4/6/2003	0	0	0	0.264	0.0424	0.143	0.6666	0.094	4.011
4/7/2003	0	0	0	0.259	0.0438	0.141	0.6822	0.101	4.4422
4/8/2003		0	0	0.274	0.0471	0.124	0.5755	0.101	4.3209
4/9/2003	7.8	5.8	8.5	0.259	0.0503	0.129	0.5091	0.101	4.3651
4/10/2003	0	0	2.2	0.59	0.0542	0.195	0.9814	0.397	6.9762
4/11/2003	0	0	0	0.325	0.0462	0.151	1.0308	0.153	4.7063
4/12/2003	0	0	0	0.282	0.0497	0.147	0.7712	0.113	4.0917
4/13/2003	0	0	0	0.259	0.044	0.141	0.513	0.101	3.3622
4/14/2003	3.1	0	1.1	0.251	0.0505	0.145	0.6791	0.09	4.1972
4/15/2003		0.1	0.1	0.259	0.0454	0.139	0.9367	0.113	4.6669
4/16/2003	0	0	0	0.251	0.0406	0.12	0.7308	0.104	4.1661

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4/17/2003	0	0	0	0.241	0.0393	0.11	0.6765	0.052	3.7335
4/18/2003	0	0	0	0.241	0.0391	0.058	0.6443	0.044	3.2143
4/19/2003	3.6	2.3	0.3	0.241	0.0444	0.042	0.6195	0.046	3.1846
4/20/2003	1.3	0.6	0.2	0.241	0.0461	0.042	0.6559	0.075	3.3797
4/21/2003	0	0	0	0.241	0.0426	0.042	0.5946	0.066	3.3428
4/22/2003	0	0		0.236	0.0436	0.042	0.7025	0.066	3.8102
4/23/2003	0	0		0.234	0.0461	0.042	0.8112	0.048	3.9744
4/24/2003	0	0	0	0.236	0.0439	0.041	0.9814	0.043	4.2112
4/25/2003	0	0	0	0.231	0.0416	0.041	0.7137	0.052	3.8929
4/26/2003		0	0	0.231	0.045	0.041	0.6639	0.066	3.5835
4/27/2003	0	0	0	0.227	0.04	0.04	0.6139	0.041	3.3338
4/28/2003	0	0	0	0.222	0.0333	0.041	0.5852	0.032	3.628
4/29/2003		0	0.3	0.203	0.0383	0.04	0.6306	0.031	3.7284
4/30/2003	0	0	0	0.194	0.0398	0.04	0.6626	0.03	3.7164
5/1/2003		0	0.3	0.19	0.0347	0.041	0.5837	0.029	3.2744
5/2/2003	0	0	0	0.205	0.0384	0.041	0.5849	0.027	3.2243
5/3/2003	0	0	0	0.205	0.0387	0.041	0.5823	0.024	3.1091
5/4/2003	0	0	0	0.205	0.0333	0.042	0.605	0.023	3.111
5/5/2003	2.1	0.5	0.6	0.201	0.041	0.043	0.6245	0.022	3.5989
5/6/2003	18.4	5.8	8.3	0.196	0.0485	0.044	0.6362	0.029	3.8087
5/7/2003	1.1	0.4	1.1	0.285	0.057	0.084	0.9429	0.178	5.9491
5/8/2003	0	0	0	0.22	0.0527	0.081	0.6821	0.043	3.9765
5/9/2003	0	0	0	0.201	0.0416	0.07	0.538	0.032	3.7211
5/10/2003	0	0	0	0.196	0.0387	0.056	0.4199	0.03	3.2516
5/11/2003	0	0	0	0.192	0.0385	0.045	0.4258	0.026	3.1704
5/12/2003	0	0	0	0.192	0.0361	0.043	0.3691	0.018	2.9606
5/13/2003	0	0	0	0.092	0.046	0.042	0.2501	0.008	3.1239
5/14/2003	0	0	0	0.092	0.0431	0.042	0.2445	0.004	3.1195
5/15/2003		0	0	0.094	0.0494	0.043	0.2701	0	3.1512
5/16/2003	0.4	0.4	0.8	0.094	0.0506	0.043	0.3035	0.019	3.3574
5/17/2003	0	0	0	0.133	0.0549	0.061	0.3228	0.042	3.2454
5/18/2003	0	0	0	0.11	0.0504	0.059	0.3079	0.026	2.8567
5/19/2003	3.5	13.5	6.7	0.101	0.0485	0.046	0.2735	0	3.4035
5/20/2003	0	0	0	0.102	0.0521	0.048	0.3286	0.064	3.6202
5/21/2003	0	0	0	0.104	0.0549	0.044	0.3172	0.02	3.3095
5/22/2003	0	0	0	0.104	0.0568	0.043	0.3273	0.01	3.2445
5/23/2003	0	0	0	0.104	0.0539	0.042	0.3357	0	3.2325
5/24/2003	20	14.4	13	0.104	0.0577	0.042	0.3238	0	2.993
5/25/2003	7.2	1	14.4	0.264	0.0694	0.15	0.7765	0.269	6.8835
5/26/2003	0.2	0	0	0.143	0.056	0.112	0.5118	0.111	4.1625
5/27/2003		0	0	0.108	0.0522	0.096	0.4024	0.037	3.6354
5/28/2003	0	0	0	0.092	0.0483	0.086	0.3826	0.026	3.4356
5/29/2003	0	0	0	0.092	0.0519	0.083	0.3655	0.021	3.38
5/30/2003	0	0	0	0.092	0.0473	0.079	0.3418	0.018	3.2336
5/31/2003	0	0	0	0.092	0.039	0.08	0.3331	0.009	2.9674
6/1/2003	0	0	0	0.092	0.0444	0.068	0.3253	0	2.8065
6/2/2003	0	0	0	0.092	0.046	0.073	0.3289	0	3.0567
6/3/2003	0	0	0	0.048	0.0531	0.052	0.3313	0	3.1022
6/4/2003	0	0	0	0.017	0.057	0.047	0.3111	0	3.062
6/5/2003		0	0	0.022	0.0568	0.043	0.3056	0	3.0954
6/6/2003	0	0	0	0.023	0.0582	0.045	0.3204	0	3.0851
6/7/2003	0	0	0	0.019	0.0557	0.042	0.3179	0	2.8212
6/8/2003	0	0	0	0.018	0.0613	0.041	0.3238	0	2.4991

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6/9/2003	0	0	0	0.018	0.062	0.04	0.3243	0	2.828
6/10/2003	0	0	0	0.018	0.068	0.04	0.3336	0	3.0036
6/11/2003	0	0	0	0.014	0.0661	0.038	0.3179	0	2.9877
6/12/2003	0	0		0.013	0.0657	0.038	0.2998	0	2.9628
6/13/2003	0	0		0.013	0.0565	0.038	0.3978	0	3.0401
6/14/2003		0	0	0.013	0.0352	0.038	0.3521	0	2.6664
6/15/2003	0	0	0	0.013	0.0144	0.037	0.3317	0	2.4943
6/16/2003	0	0	0	0.013	0.0157	0.037	0.3306	0	2.8853
6/17/2003		0	0	0.01	0.0153	0.038	0.3345	0	2.995
6/18/2003	0	0	0	0.01	0.0115	0.039	0.3219	0	3.0158
6/19/2003	0	0	0	0.017	0.0105	0.038	0.2922	0	2.8923
6/20/2003	0	0	0	0.013	0.0114	0.038	0.2798	0	2.8528
6/21/2003	0	0	0	0.013	0.0138	0.037	0.273	0	2.5166
6/22/2003	0	0	0	0.013	0.0091	0.036	0.267	0	2.2784
6/23/2003	0	0	0	0.013	0.0097	0.036	0.2415	0	2.3125
6/24/2003		0	0	0.013	0.0215	0.036	0.2178	0	2.1989
6/25/2003	0	0	0	0.013	0.0262	0.035	0.2287	0	2.751
6/26/2003	0	0	0	0.013	0.0402	0.035	0.2624	0	2.8743
6/27/2003	0	0	6.4	0.013	0.0459	0.035	0.3176	0	3.6983
6/28/2003		0	0	0.053	0.0445	0.035	0.3118	0.02	2.8473
6/29/2003	0	0	0	0.018	0.0309	0.035	0.3083	0	2.3569
6/30/2003	0	0	0	0.016	0.0231	0.034	0.3148	0	2.7814
7/1/2003	0	0		0.013	0.0269	0.033	0.2765	0	2.7658
7/2/2003	0	0		0.013	0.0328	0.033	0.2588	0	2.7932
7/3/2003	1.5	0		0.013	0.0341	0.032	0.2297	0	2.7292
7/4/2003	2.1	2.6	0	0.014	0.0342	0.034	0.2649	0	2.8412
7/5/2003	0	0	0	0.014	0.0267	0.033	0.2635	0	2.5062
7/6/2003	0	0	0	0.014	0.033	0.033	0.2513	0	2.1637
7/7/2003	0	0		0.014	0.0317	0.032	0.2268	0	2.6374
7/8/2003	0.5	0.3		0.011	0.0375	0.031	0.2738	0	2.7782
7/9/2003	0.2	0.2		0.01	0.0402	0.031	0.2647	0	2.8681
7/10/2003	0	0	0	0.01	0.0331	0.03	0.2783	0	2.8565
7/11/2003	0	0		0.009	0.024	0.03	0.2523	0	2.7392
7/12/2003	0	0		0.008	0.0248	0.03	0.1608	0	2.3835
7/13/2003	0	0		0.008	0.0239	0.03	0.1309	0	1.9825
7/14/2003	0	0		0.007	0.0369	0.03	0.1231	0	2.4592
7/15/2003	0	0		0.008	0.0528	0.03	0.1252	0	2.5575
7/16/2003	0	0		0.008	0.0492	0.029	0.1244	0	2.543
7/17/2003	0	0		0.009	0.0447	0.029	0.1315	0	2.5551
7/18/2003	0	0	0	0.009	0.0285	0.029	0.1376	0	2.6587
7/19/2003	0	0	0	0.009	0.0223	0.028	0.2027	0	2.4021
7/20/2003		0	0	0.008	0.0357	0.028	0.2076	0	2.2258
7/21/2003	0	0	0	0.008	0.0268	0.027	0.2056	0	2.5493
7/22/2003	0	0	0	0.008	0.0373	0.026	0.1948	0	2.6592
7/23/2003	0	0	0	0.007	0.0405	0.027	0.1848	0	2.6443
7/24/2003	0	0	0	0.017	0.0484	0.027	0.1392	0	2.6143
7/25/2003	0	0	0	0.011	0.0537	0.027	0.1706	0	2.6316
7/26/2003	0	0	0	0.008	0.0354	0.026	0.1375	0	2.2937
7/27/2003	0	0	0	0.007	0.0364	0.026	0.1209	0	1.9851
7/28/2003	0	0	0	0.007	0.0433	0.01	0.1127	0	2.3408
7/29/2003	0	0	0	0.008	0.043	0	0.2999	0	2.5462
7/30/2003	0	0	0	0.072	0.0292	0	0.1516	0	2.4645
7/31/2003	0	0	0	0.3	0.0343	0.044	0.2527	0	2.876

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
8/1/2003	0	0	0	0.053	0.036	0.03	0.1745	0	2.5345
8/2/2003	0	0	0	0.033	0.0273	0.03	0.1377	0	2.0658
8/3/2003	0	0	0	0.022	0.0274	0.03	0.2255	0	1.9528
8/4/2003	0	0	0	0.016	0.027	0.03	0.6283	0	2.6347
8/5/2003	0	0	0	0.01	0.0226	0.03	0.8	0	2.8031
8/6/2003	0	0	0	0.009	0.0254	0.03	0.3505	0	2.3295
8/7/2003	0	0	0	0.009	0.024	0.029	0.2573	0	2.1985
8/8/2003	0	0	0	0.009	0.0212	0.029	0.4624	0	2.3803
8/9/2003	0	0	0	0.009	0.0218	0.029	0.2149	0	1.921
8/10/2003	0	0	0	0.009	0.0198	0.029	0.1779	0	1.7749
8/11/2003	0	0	0	0.009	0.0166	0.028	0.1506	0	1.9245
8/12/2003	0	0	0	0.009	0.0208	0.028	0.4351	0	2.1845
8/13/2003	0	0	0	0.009	0.0175	0.028	0.25	0	2.0205
8/14/2003	0	0	0	0.009	0.0138	0.027	0.2322	0	1.8953
8/15/2003	0	0	0	0.009	0.0196	0.026	0.2346	0	1.8814
8/16/2003	0	0		0.009	0.0294	0.027	0.2379	0	1.822
8/17/2003	16.3	14.6		0.3	0.0687	0.107	0.7581	0.234	10.3401
8/18/2003	0	0	0	0.145	0.0128	0.035	0.3641	0.085	5.0779
8/19/2003	0	0	0	0.039	0.0112	0.033	0.3281	0	3.6959
8/20/2003	0	0	0	0.03	0.0095	0.034	0.8003	0	3.7773
8/21/2003		0	0	0.018	0.0095	0.034	1.0276	0	3.929
8/22/2003	0	0	0	0.018	0.0089	0.033	0.6782	0	3.4121
8/23/2003	0	0	0	0.018	0.0098	0.033	0.3326	0	2.7641
8/24/2003	0	0	0	0.016	0.0084	0.033	0.3109	0	2.6154
8/25/2003	0	0	0	0.013	0.0519	0.032	0.7513	0	3.2678
8/26/2003	0	0	0	0.016	0.082	0.031	0.3654	0	2.888
8/27/2003	0	0	0	0.016	0.0665	0.03	0.2876	0	2.8224
8/28/2003	0	0	0	0.018	0.0999	0.03	0.2511	0	2.7665
8/29/2003	0	0	0	0.017	0.0911	0.03	0.2925	0	2.7106
8/30/2003	0	0		0.013	0.0921	0.03	0.354	0	2.5503
8/31/2003	15.1	16.7		0.019	0.1136	0.03	1.0336	0	3.3236
9/1/2003	0	0	0	0.306	0.1082	0.147	0.9819	0.331	9.6687
9/2/2003	0.4	0	0	0.217	0.0073	0.041	0.4473	0	6.3212
9/3/2003		0	0	0.097	0.007	0.036	0.4077	0	5.3198
9/4/2003	0.9	0.5	0	0.047	0.0073	0.036	0.6234	0	5.1635
9/5/2003	15.6	3.3	0	0.039	0.0077	0.036	0.5873	0	4.9576
9/6/2003	0	0		0.038	0.0076	0.036	0.4462	0.035	5.7477
9/7/2003	23.6	6.1		0.117	0.0364	0.188	1.1605	0.638	11.4942
9/8/2003	0.8	0.2	0	0.141	0.0117	0.076	0.937	0.153	5.3673
9/9/2003	0	0	0.5	0.065	0.0073	0.044	0.549	0.016	4.4702
9/10/2003	0	0	0	0.054	0.0069	0.039	0.7229	0	4.381
9/11/2003	0	0	0	0.05	0.0071	0.036	0.5198	0	3.7577
9/12/2003	0	0	0	0.045	0.007	0.035	0.423	0.039	3.5896
9/13/2003	0	0	0	0.041	0.007	0.035	0.6185	0	3.4904
9/14/2003	0	0	0	0.037	0.0068	0.035	0.6647	0	3.3621
9/15/2003	0	0	0	0.028	0.0394	0.035	0.4802	0	3.3583
9/16/2003	0	0	0.3	0.031	0.105	0.034	0.3547	0	3.3348
9/17/2003	0	0	0	0.028	0.1248	0.034	0.3406	0	3.2069
9/18/2003	0	0	0	0.026	0.1892	0.033	0.3388	0	3.1128
9/19/2003	0	0	0	0.027	0.125	0.033	0.3341	0	3.0731
9/20/2003	0	0	0	0.031	0.0425	0.032	0.3241	0	2.4971
9/21/2003		0	0	0.024	0.0933	0.032	0.3089	0	2.5571
9/22/2003	1.5	2.7	0.2	0.027	0.0922	0.037	0.3112	0	3.037

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
9/23/2003	4.1	4	0.1	0.438	0.054	0.204	0.7831	0.433	5.2775
9/24/2003	0.4	0.8	0	0.099	0.0075	0.076	0.3547	0.046	3.1451
9/25/2003	0	0	0	0.08	0.0071	0.047	0.3457	0	2.9737
9/26/2003	0.2	0		0.067	0.0072	0.044	0.341	0	2.9236
9/27/2003	27.5	24.5		0.078	0.0152	0.104	0.968	0.192	4.1491
9/28/2003	2.5	0.3	0	0.095	0.0088	0.057	0.4451	0.058	3.1346
9/29/2003	0	0		0.536	0.0099	0.085	0.5847	0.019	3.9115
9/30/2003	20.4	37.5		0.133	0.0142	0.104	0.6241	0.146	4.1012
10/1/2003	0	0	0	0.641	0.0204	0.134	0.6572	0.386	5.1636
10/2/2003	0	0	0	0.203	0.0086	0.119	0.4099	0.092	3.5581
10/3/2003	0	0	0	0.121	0.0071	0.11	0.3545	0.013	3.3129
10/4/2003		0	0	0.09	0.0078	0.098	0.3522	0.002	2.8549
10/5/2003	0	0	0	0.075	0.0079	0.081	0.3556	0	2.6008
10/6/2003	0	0	0.1	0.073	0.0084	0.068	0.3383	0	2.8808
10/7/2003	0	0	0	0.068	0.0096	0.058	0.7213	0	3.2932
10/8/2003	0	0	0	0.067	0.0091	0.048	0.3639	0	2.8855
10/9/2003	0	0	0	0.062	0.0119	0.045	0.331	0	3.796
10/10/2003	0	0	0	0.059	0.0116	0.05	0.3337	0	5.9206
10/11/2003	0	0	0.4	0.06	0.0101	0.046	0.3288	0	5.6834
10/12/2003		0	0.8	0.06	0.0106	0.04	0.33	0	5.4853
10/13/2003	0	0	0.1	0.097	0.009	0.039	0.3378	0	6.1296
10/14/2003	5.6	6.2	1.1	0.178	0.0103	0.042	0.3416	0	6.1597
10/15/2003	4.6	3.7	5.7	0.099	0.1103	0.048	0.4061	0	7.0438
10/16/2003	46.9	31.3	38.4	0.261		0.071	0.6968	0.058	7.9876
10/17/2003	26.3	0	29.6	0.876		0.177	1.2099	1.051	34.1007
10/18/2003		0	0.1	2.034		0.188	1.4792	0.564	28.7781
10/19/2003	19.4	6	13.8	1.372	0.029	0.227	1.3809	0.421	25.2785
10/20/2003	0	0	0	1.313	0.0165	0.184	1.9791	0.243	20.9917
10/21/2003	4.6	0.5	0.9	0.766	0.0182	0.161	1.2451	0.046	16.7901
10/22/2003	10.2	4.6	7.6	0.432	0.0107	0.169	1.1337	0.189	9.6899
10/23/2003	0	0	0	0.311	0.0159	0.143	1.0847	0.058	8.1923
10/24/2003	0	0	0	0.199	0.009	0.132	0.7679	0.036	7.4783
10/25/2003	0	0	0.2	0.153	0.0127	0.128	0.6758	0.026	6.8984
10/26/2003	9.9	6.4	16.8	0.556	0.0445	0.196	0.9815	0.345	10.4557
10/27/2003	10.7	5.2	4.5	1.13	0.0407	0.18	1.1463	0.234	9.8343
10/28/2003	1.2	0.7	0.3	0.766	0.023	0.168	1.014	0.148	9.1888
10/29/2003	0	0.1	0	0.746	0.0318	0.164	0.8491	0.092	8.3783
10/30/2003		0	0	0.447	0.0221	0.155	0.7351	0.079	7.8564
10/31/2003	11.4	4.2	1.2	0.742	0.0338	0.16	0.9924	0.104	8.7261
11/1/2003	0	2.1	0	1.111	0.0267	0.157	1.1193	0.079	8.7691
11/2/2003	0	0	0	0.714	0.106	0.154	1.0584	0.056	7.98
11/3/2003	0	0	0	0.46	0.0164	0.148	0.8667	0.041	7.691
11/4/2003	0	0	0	0.348	0.0173	0.14	0.7599	0.034	7.4523
11/5/2003	0	0	0	0.269	0.0162	0.137	0.7372	0.031	7.3332
11/6/2003	0	0	0	0.208	0.0267	0.135	0.7087	0.029	7.2195
11/7/2003	0	0	0	0.187	0.0136	0.138	0.7037	0.029	7.2861
11/8/2003	2	0	2.3	0.19	0.0964	0.131	0.6974	0.026	6.978
11/9/2003	0.1	0	0.6	0.234	0.0172	0.133	0.7678	0.039	7.3379
11/10/2003	0.5	0	0.2	0.192	0.0206	0.124	0.6764	0.027	7.026
11/11/2003	0	1	0	0.17	0.1151	0.118	0.7595	0.019	7.0416
11/12/2003	0	0	0	0.161	0.0204	0.114	0.6377	0.022	6.8712
11/13/2003	0	0.2	0	0.157	0.0168	0.11	0.6989	0.019	6.9377
11/14/2003	0	0	0	0.151	0.0219	0.108	0.6368	0.013	5.8415

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11/15/2003	1	0.1	3.5	0.155	0.0237	0.106	0.6273	0.008	4.7638
11/16/2003	4.3	5.7	0.5	0.267	0.0381	0.134	0.6283	0.073	5.6824
11/17/2003		0.1	0	0.238	0.0326	0.139	0.63	0.047	5.4421
11/18/2003	0	0	0	0.188	0.0291	0.138	0.6557	0.039	5.2197
11/19/2003	0	0	1.3	0.169	0.0242	0.136	0.569	0.041	5.036
11/20/2003	0	0	0	0.168	0.023	0.135	0.6212	0.04	5.0646
11/21/2003	0	0	0	0.162	0.018	0.134	0.5946	0.037	5.1267
11/22/2003		0	0.1	0.163	0.017	0.129	0.5689	0.046	4.834
11/23/2003	5.4	2.1	9.6	0.169	0.0424	0.131	0.502	0.045	4.8437
11/24/2003	0	0	0	1.996	0.0878	0.366	1.4129	0.314	10.714
11/25/2003	0	0	0	1.372	0.0811	0.278	1.0756	0.195	8.1054
11/26/2003	0.7	0.4	3.6	1.102	0.0763	0.238	0.8757	0.107	7.2304
11/27/2003	0	0	0	0.84	0.0795	0.219	0.9693	0.127	7.4662
11/28/2003	0	0	0	0.583	0.0751	0.205	0.7983	0.086	6.2884
11/29/2003	0	0	0	0.448	0.0739	0.196	0.6452	0.071	5.7367
11/30/2003	2.6	1.3	2.9	0.381	0.0682	0.188	0.5361	0.075	5.2266
12/1/2003	4.6	7.1	5.4	0.672	0.0877	0.209	0.9279	0.254	7.5965
12/2/2003	0	1.3	0	0.69	0.0836	0.205	0.9958	0.161	6.9161
12/3/2003	19.7	15.3	17.9	0.773	0.0839	0.212	0.9665	0.133	7.3643
12/4/2003	4.6	1.1	10.2	11.258	0.3878	0.472	2.3191	1.481	54.9812
12/5/2003	1.3	0	1.4	1.793	0.2464	0.436	1.4286	0.961	26.4467
12/6/2003	0	0		1.533	0.111	0.361	1.3479	0.462	20.2119
12/7/2003	4.6	1.8		1.315	0.0958	0.323	1.2939	0.346	8.9322
12/8/2003	0	0	0	1.199	0.0862	0.295	1.3007	0.317	9.0154
12/9/2003	0	0	0	1.085	0.0755	0.27	1.26	0.221	8.3175
12/10/2003	0	0	0	0.944	0.0707	0.258	1.2296	0.207	8.0509
12/11/2003	0	0	0	0.754	0.0622	0.229	1.2036	0.197	7.5404
12/12/2003	0	0	0	0.68	0.056	0.226	1.1866	0.18	7.4432
12/13/2003	0	0	0	0.616	0.0473	0.214	1.0726	0.155	6.8035
12/14/2003	0	0	0	0.534	0.0459	0.211	0.9707	0.139	6.3099
12/15/2003	0	0	0	0.482	0.0409	0.206	1.068	0.13	6.6604
12/16/2003	0	0	0	0.446	0.0371	0.2	0.9428	0.138	6.5777
12/17/2003	0	0	0	0.415	0.0398	0.198	0.7997	0.119	6.3345
12/18/2003	0.5	0.2	0.8	0.398	0.035	0.194	0.7832	0.108	6.3092
12/19/2003		0.1	0	0.354	0.0356	0.191	0.8049	0.099	6.2291
12/20/2003	0	0	0.1	0.336	0.0324	0.186	0.698	0.089	5.9737
12/21/2003	0	4.5	0	0.329	0.0342	0.183	0.6951	0.083	5.686
12/22/2003	0	0	0	0.308	0.0273	0.179	0.6841	0.076	5.8976
12/23/2003	0	0	0	0.333	0.0283	0.172	0.6753	0.09	5.8055
12/24/2003	0	0	0	0.335	0.0304	0.168	0.6861	0.093	5.7382
12/25/2003	0	0	0	0.33	0.0254	0.166	0.666	0.073	5.4752
12/26/2003	0	0	0	0.293	0.0243	0.166	0.681	0.06	5.369
12/27/2003	0	0	0	0.315	0.028	0.163	0.5321	0.059	5.1824
12/28/2003	0.7	0.5	0	0.322	0.0306	0.161	0.5459	0.061	5.1819
12/29/2003	0	0	0	0.31	0.0276	0.156	0.573	0.056	5.172
12/30/2003	0	0	0	0.303	0.0268	0.145	0.5552	0.053	5.0836
12/31/2003	0	0	0	0.275	0.0269	0.142	0.5291	0.05	4.8642
1/1/2004	0	2.8	0	0.253	0.0315	0.147	0.516	0.058	3.9355
1/2/2004	0	0	0	0.237	0.0269	0.144	0.5246	0.05	3.9267
1/3/2004	0	0	0	0.258	0.0271	0.137	0.4995	0.058	3.9142
1/4/2004	0	0	0	0.256	0.0291	0.135	0.4947	0.055	3.7862
1/5/2004	0	0	0	0.25	0.0286	0.135	0.5531	0.046	3.8314
1/6/2004	0	0	0	0.202	0.0275	0.135	0.6932	0.044	3.7419

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1/7/2004	0	3.6	0	0.196	0.0332	0.132	0.7348	0.042	3.9006
1/8/2004	0	0	0	0.209	0.0316	0.13	0.7345	0.042	4.1312
1/9/2004	0	0	0	0.202	0.031	0.124	0.8543	0.04	4.2674
1/10/2004	0	0	0	0.203	0.0287	0.124	0.5092	0.038	3.9739
1/11/2004	0	0	0	0.195	0.034	0.125	0.459	0.041	3.6265
1/12/2004	0	0	0	0.188	0.0389	0.126	0.4748	0.04	3.8098
1/13/2004	0	0	0	0.183	0.0412	0.121	0.5229	0.032	3.9778
1/14/2004	0	0	0	0.183	0.0424	0.118	0.501	0.029	3.9661
1/15/2004	0	0	0	0.179	0.0452	0.121	0.4751	0.031	3.8636
1/16/2004	0	0	0	0.18	0.047	0.132	0.522	0.031	3.9376
1/17/2004	0	0	0	0.179	0.0476	0.133	0.4705	0.031	3.7155
1/18/2004	0	0	0	0.175	0.0549	0.133	0.4394	0.031	3.4671
1/19/2004	0	0	0	0.17	0.0492	0.132	0.4583	0.03	3.6291
1/20/2004	0	0	0	0.168	0.0539	0.132	0.5028	0.03	3.7717
1/21/2004	0	0	0	0.165	0.0556	0.13	0.5075	0.03	3.8309
1/22/2004	0	0	0	0.166	0.0552	0.13	0.4645	0.031	3.7522
1/23/2004	0.3	0.2	0	0.162	0.059	0.13	0.4664	0.03	3.7704
1/24/2004	0.7	0.6	0.3	0.164	0.0641	0.133	0.4648	0.028	3.6589
1/25/2004		0	0	0.159	0.0629	0.13	0.4505	0.029	3.3884
1/26/2004	0	0	0	0.161	0.0584	0.115	0.4916	0.025	3.5496
1/27/2004	0.3	0.1	1.7	0.161	0.0638	0.113	0.5217	0.022	3.6527
1/28/2004	0	0	0.1	0.158	0.0557	0.119	0.6335	0.042	4.1238
1/29/2004	0	0	0	0.15	0.0603	0.119	0.5202	0.029	3.6643
1/30/2004	1.3	2.2	0.3	0.151	0.0583	0.117	0.5084	0.026	3.5942
1/31/2004		0	0	0.154	0.0551	0.114	0.4943	0.022	3.49
2/1/2004	0	0		0.151	0.0471	0.112	0.4883	0.016	3.2011
2/2/2004	0	0		0.144	0.0524	0.106	0.4807	0.014	3.314
2/3/2004	0	0		0.139	0.0516	0.104	0.5309	0.02	3.4783
2/4/2004	0	0		0.137	0.0573	0.086	0.5236	0.009	3.3692
2/5/2004	0	0		0.136	0.0567	0.083	0.5375	0.013	3.4272
2/6/2004	0	0		0.134	0.0532	0.082	0.5309	0.024	3.4337
2/7/2004	0	0		0.127	0.0594	0.086	0.5215	0.02	3.3124
2/8/2004	0	0		0.129	0.0531	0.088	0.4963	0.013	3.0065
2/9/2004	0	0		0.128	0.0543	0.087	0.4974	0.011	3.2048
2/10/2004	0	0		0.132	0.0524	0.08	0.5035	0.012	3.3194
2/11/2004	0	0		0.14	0.0513	0.08	0.5331	0.01	3.3418
2/12/2004	0	0		0.134	0.0565	0.079	0.5545	0.013	3.2936
2/13/2004	0	0.3		0.125	0.0461	0.079	0.5341	0.009	3.2825
2/14/2004	0	0		0.113	0.0467	0.08	0.5265	0.008	3.1875
2/15/2004	0	0		0.107	0.0456	0.08	0.4975	0.014	2.9273
2/16/2004	24.8	19.9		0.147	0.0593	0.087	0.6195	0.01	3.2692
2/17/2004	0	0		0.494	0.2004	0.163	0.7872	0.387	10.1494
2/18/2004	0	2.3		0.207	0.0856	0.146	0.637	0.059	4.0844
2/19/2004	11.2	4.4		0.173	0.0555	0.13	0.7124	0.051	3.7793
2/20/2004	19.1	6.1		0.215	0.0506	0.223	1.1861	0.961	11.2624
2/21/2004	3	1.8		0.947	0.2287	0.211	1.508	0.554	13.2989
2/22/2004	0	0		0.421	0.0592	0.198	1.1172	0.168	5.8309
2/23/2004		0		0.275	0.0506	0.197	0.9161	0.107	4.9403
2/24/2004	4.5	3.3		0.264	0.0557	0.197	0.8485	0.085	4.7099
2/25/2004	26.3	21.6		0.288	0.0675	0.214	1.0504	0.243	8.3996
2/26/2004	15.2	14.4		1.417	1.1898	0.427	1.9528	1.918	21.3888
2/27/2004		0		1.452	0.2342	0.417	1.4303	1.011	15.1451
2/28/2004	0	0		1.149	0.1061	0.349	1.279	0.549	9.8674

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
2/29/2004	3	2.7		0.907	0.0952	0.316	1.2041	0.382	7.9785
3/1/2004		5.6	0	0.868	0.0872	0.295	1.1474	0.313	7.1843
3/2/2004	0	0	0	0.638	0.0773	0.277	1.0927	0.261	6.6901
3/3/2004	0	0	0	0.521	0.2028	0.262	1.0402	0.222	6.2325
3/4/2004	0	0	0	0.448	0.1036	0.252	0.9858	0.21	5.9476
3/5/2004	0	0	0	0.441	0.057	0.246	0.9676	0.2	5.7675
3/6/2004	8.3	10.9	0	0.486	0.0538	0.249	0.9153	0.249	6.7418
3/7/2004	0	0	0	0.676	0.0515	0.246	0.9623	0.246	6.1081
3/8/2004	0.8	0.4	0	0.558	0.0474	0.237	0.893	0.191	5.8202
3/9/2004	0	0	0	0.457	0.0469	0.239	0.8728	0.178	5.4702
3/10/2004		0	0.9	0.424	0.0515	0.241	0.8103	0.158	5.3653
3/11/2004		0	0	0.394	0.033	0.238	0.7726	0.157	5.3254
3/12/2004		0	0.1	0.379	0.0293	0.231	0.7484	0.139	5.0938
3/13/2004	1	0	0	0.365	0.0301	0.228	0.7132	0.131	4.8685
3/14/2004	0.3	0.3	0	0.347	0.0233	0.221	0.729	0.141	4.5387
3/15/2004	0	0	0.2	0.334	0.0173	0.211	0.6802	0.105	4.5562
3/16/2004	0	0		0.319	1.5521	0.203	0.6778	0.093	4.6139
3/17/2004	0	0		0.3	4.4362	0.195	0.6821	0.077	4.5356
3/18/2004	0	0		0.29		0.185	0.6756	0.072	4.3782
3/19/2004	0	0		0.276		0.184	0.6744	0.063	4.3051
3/20/2004	0	0		0.272		0.183	0.6439	0.055	4.1301
3/21/2004	0	0		0.245		0.179	0.6317	0.051	3.7969
3/22/2004		0.1		0.275		0.182	0.7417	0.046	4.0427
3/23/2004	0	0.1		0.262		0.183	0.7609	0.045	4.3797
3/24/2004	0	0		0.249		0.18	0.6838	0.046	4.1563
3/25/2004	1.1	7.3		0.246		0.207	0.7752	0.1	5.2455
3/26/2004		0		0.254		0.161	0.7654	0.28	5.1896
3/27/2004	16.4	13.4		0.293		0.172	1.0334	0.415	8.797
3/28/2004	0	0		0.301		0.162	0.8866	0.193	5.5861
3/29/2004	31.2	20.4		0.294		0.188	0.9356	0.401	7.7432
3/30/2004	9	5.2		3.458		0.342	3.0122	1.651	14.4238
3/31/2004	0.1	0		4.78		0.45	1.4939	1.112	19.745
4/1/2004	0.6	3.6	0	1.884		0.477	1.3849	1.365	16.9167
4/2/2004	2.4	2	0	1.708		0.46	1.3583	1.198	15.7652
4/3/2004	0	0	0	1.471		0.446	1.3067	0.903	13.7641
4/4/2004	0	0	0	1.288		0.404	1.2716	0.641	10.791
4/5/2004	0	0	0	1.198		0.351	1.2261	0.511	9.2887
4/6/2004	0	0	0	1.084		0.325	1.1876	0.418	8.354
4/7/2004	7.5	3.2	0	0.998		0.302	1.1666	0.323	7.6343
4/8/2004	14.8	9.4	0	1.424		0.383	1.2841	0.784	11.9035
4/9/2004	0	0	0	1.744		0.462	1.4174	1.271	17.184
4/10/2004	0.1	0	0.1	1.462		0.437	1.3559	0.762	12.2522
4/11/2004	0	0	0	1.342		0.433	1.463	1.054	13.2402
4/12/2004	2.1		0	1.227		0.385	1.3626	1.081	12.0389
4/13/2004	0	0	0	1.151		0.351	1.3051	0.892	10.6721
4/14/2004	17	0		1.072		0.351	1.7462	0.93	9.3642
4/15/2004	11.7	11.6		1.018		0.345	1.5507	1.41	16.9476
4/16/2004	30.5	8	0	2.234		0.413	3.6035	2.232	21.45
4/17/2004		0	0	2.099		0.422	2.3464	1.812	21.4002
4/18/2004		0		1.57		0.393	1.5608	1.261	15.9433
4/19/2004	0	0		1.406		0.366	1.4337	1.006	14.1134
4/20/2004	0	0		1.247		0.337	1.3684	0.797	11.5862
4/21/2004	0	0		1.161		0.315	1.3329	0.671	10.2111

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4/22/2004	9.2	6.9	0	1.169		0.332	1.3088	0.88	11.8709
4/23/2004	5.3	0		1.114		0.321	1.2856	0.708	10.8945
4/24/2004	0	0		1.023		0.32	1.2705	0.648	9.5811
4/25/2004	0	0		0.858		0.304	1.2174	0.48	7.8789
4/26/2004	0	0		0.75		0.29	1.2067	0.406	7.5951
4/27/2004	0	0		0.668		0.282	1.1844	0.356	7.42
4/28/2004	12.5	8.9	15.4	0.626		0.281	1.1769	0.357	7.1388
4/29/2004	15.1	6.5	18.3	1.071		0.367	1.3477	1.522	17.2726
4/30/2004	0.1	2.2	0.9	1.134		0.321	1.3057	0.959	11.7296
5/1/2004	0	2.2	0.3	1.01		0.312	1.2442	0.703	8.9462
5/2/2004	0.6	0	0.1	0.964		0.302	1.2272	0.606	8.1017
5/3/2004	11.8	7	3.4	0.951		0.296	1.2763	0.577	8.3617
5/4/2004	2	1.7	1.8	0.957		0.288	1.1924	0.545	8.3305
5/5/2004	0.2	0	0	1.079		0.288	1.1763	0.511	8.0175
5/6/2004	0	0	0	1.377		0.284	1.1789	0.397	8.7525
5/7/2004		0	0.4	1.211		0.278	1.2003	0.365	8.0782
5/8/2004	0	0	0	1.092		0.26	1.1787	0.331	7.5588
5/9/2004		0	0.1	0.943		0.26	1.1311	0.292	6.6521
5/10/2004	3.9	3.5	3.2	0.848		0.257	1.1333	0.352	7.7564
5/11/2004	16.2	11.1	14.3	0.852		0.286	1.2117	0.661	10.4883
5/12/2004	0.1	0.5	0	1.337		0.325	1.2514	0.569	10.8188
5/13/2004		0.3	0.1	1.264		0.311	1.1827	0.413	8.6357
5/14/2004	0		0	1.223		0.303	1.1802	0.405	8.9654
5/15/2004	0		0	1.094		0.295	1.1053	0.297	7.2141
5/16/2004	0		0	1.019		0.285	1.0232	0.262	6.4373
5/17/2004	0		0	0.908		0.274	0.9951	0.243	6.3701
5/18/2004	0	0	0	0.728		0.259	0.9414	0.222	6.2186
5/19/2004	0	0	0	0.647		0.246	0.8763	0.195	5.9226
5/20/2004	0	0	0	0.562		0.24	0.8172	0.167	5.7295
5/21/2004	0	0	0	0.479		0.239	0.7938	0.163	5.5474
5/22/2004	1.8	0.3	0.8	0.442		0.232	0.7189	0.176	5.3147
5/23/2004	0	0	0	0.448		0.227	0.719	0.171	5.1798
5/24/2004	0	0	0	0.431		0.225	0.6863	0.15	5.1669
5/25/2004	0	0	0	0.384		0.219	0.6754	0.153	5.1488
5/26/2004	0	0	0	0.381		0.214	0.7081	0.135	4.9685
5/27/2004	0	0	0	0.365		0.207	0.6547	0.126	4.9751
5/28/2004	0	0	0	0.382		0.198	0.629	0.132	4.7977
5/29/2004	0	0	0	0.386		0.182	0.5762	0.107	4.5659
5/30/2004	0	0	0.6	0.387		0.173	0.5174	0.126	4.364
5/31/2004	0	0	0	0.371		0.172	0.6221	0.143	4.8003
6/1/2004	0	0	0	0.354		0.165	0.6218	0.11	4.5769
6/2/2004	0	0	0	0.333		0.161	0.6473	0.11	4.5748
6/3/2004	0	0	0	0.305		0.159	0.595	0.098	4.4868
6/4/2004	0	0	0	0.299		0.15	0.5098	0.096	4.3843
6/5/2004	0	0	0	0.293		0.141	0.533	0.088	4.0511
6/6/2004	0	0	0	0.27		0.143	0.7312	0.087	3.8868
6/7/2004	0	0	0	0.26		0.137	0.6636	0.081	3.8993
6/8/2004	0	0	0	0.274		0.138	0.4755	0.073	4.1262
6/9/2004	0	0	0	0.266		0.141	0.3854	0.057	3.9511
6/10/2004	0	0	0	0.246		0.135	0.3711	0.049	3.8853
6/11/2004		0	0	0.24		0.125	0.3952	0.046	3.7982
6/12/2004	0.5	0	0.6	0.27		0.122	0.4349	0.054	3.711
6/13/2004	0.8	7.2	2	0.284		0.132	0.8385	0.275	5.7951

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6/14/2004	0.9	0.9	0.8	0.258		0.131	0.6388	0.178	4.5838
6/15/2004	5.8	1.2	3.7	0.323		0.14	0.5995	0.268	5.4049
6/16/2004		0	0	0.252		0.133	0.4927	0.161	4.206
6/17/2004	0	0	0	0.184		0.126	0.491	0.123	4.059
6/18/2004	0	0	0	0.137		0.112	0.4115	0.084	3.9222
6/19/2004	6.5	3.6	9.9	0.155		0.138	0.6258	0.189	6.1378
6/20/2004	0	0	0	0.342		0.134	0.6784	0.193	5.5482
6/21/2004		1	0	0.17		0.124	0.4249	0.087	4.0285
6/22/2004	0	0	0	0.158		0.117	0.4234	0.076	3.9935
6/23/2004	0	0	0	0.13		0.106	0.3833	0.065	3.8895
6/24/2004	0	0	0	0.117		0.096	0.382	0.053	3.4044
6/25/2004	0	0	0	0.111		0.085	0.3516	0.046	3.2099
6/26/2004	0	0	0	0.107		0.07	0.3301	0.045	2.9468
6/27/2004	0	0	0	0.091		0.071	0.2832	0.041	2.7463
6/28/2004	0	0	0	0.083		0.066	0.2787	0.041	3.0566
6/29/2004	0	0	0	0.084		0.057	0.3294	0.041	3.2985
6/30/2004	0	0	0	0.079		0.05	0.3029	0.041	3.3289
7/1/2004	0	0	0	0.069		0.044	0.3373	0.041	3.3167
7/2/2004	0	0	0	0.06		0.026	0.3514	0.042	3.23
7/3/2004	0	0	0	0.065		0.033	0.3447	0.043	3.0302
7/4/2004	0	0	0	0.066		0.033	0.3097	0.038	2.7284
7/5/2004	1.7	0.5	2.8	0.064		0.035	0.3285	0.024	3.0192
7/6/2004	0.1		0.2	0.093		0.05	0.3731	0.036	3.3739
7/7/2004	0	0	0	0.091		0.058	0.3439	0.036	3.2751
7/8/2004	0	0	0	0.069		0.056	0.3334	0.031	3.1481
7/9/2004	0	0	0	0.065		0.049	0.2795	0.03	3.051
7/10/2004	11	9.6	18.6	0.107		0.056	0.2871	0.027	2.9044
7/11/2004	15.7	31.9	1.3	0.316		0.146	0.8667	0.496	9.738
7/12/2004	3.6	5.3	0.4	0.14		0.086	0.3611	0.093	4.4275
7/13/2004	0	0	0	0.115		0.078	0.3491	0.062	3.934
7/14/2004	0	0	0	0.1		0.07	0.6035	0.045	3.7006
7/15/2004	0	0	0	0.086		0.066	0.3379	0.042	3.4682
7/16/2004	0	0	0	0.073		0.061	0.3312	0.04	3.3509
7/17/2004	0	0	0	0.066		0.052	0.2839	0.038	3.0345
7/18/2004	0	0	0	0.06		0.057	0.2218	0.036	2.6492
7/19/2004	0	0	0	0.055		0.042	0.2275	0.036	2.8963
7/20/2004	0	0	0	0.053		0.041	0.2361	0.043	3.0577
7/21/2004	0	0		0.051		0.042	0.3357	0.04	3.1061
7/22/2004	0	0		0.05		0.035	0.4456	0.037	3.2607
7/23/2004		0		0.047		0.034	0.493	0.028	3.3766
7/24/2004	0	0		0.044		0.033	0.3042	0.03	2.9725
7/25/2004	0	0		0.044		0.031	0.28	0.026	2.6786
7/26/2004	0	0	0	0.044		0.027	0.3211	0.01	2.9497
7/27/2004	0	0	0	0.044		0.024	0.2023	0.025	3.0206
7/28/2004		0	0	0.044		0.023	0.2369	0.025	3.0201
7/29/2004	0	0	0	0.041		0.026	0.3179	0.029	3.0116
7/30/2004	0	0	0	0.038		0.024	0.2428	0.022	2.9173
7/31/2004	0	0	0	0.04		0.021	0.2106	0.021	2.7493
8/1/2004	0	0	0	0.038		0.02	0.3036	0.021	2.4954
8/2/2004	1	0	0	0.038		0.015	0.288	0.009	2.5917
8/3/2004	0	0	0	0.03		0.009	0.3016	0.006	2.6275
8/4/2004	1.6	0.4	4.4	0.045		0.051	0.3193	0.006	3.2053
8/5/2004	0	6	2.4	0.084		0.054	0.3057	0.131	4.114

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8/6/2004	0	0	0	0.046		0.035	0.241	0.034	2.8347
8/7/2004	0	0	0	0.04		0.033	0.2417	0.025	2.4993
8/8/2004	0	0	0	0.034		0.026	0.6348	0.019	2.6073
8/9/2004	0	0	0	0.03		0.027	0.3729	0.015	2.4799
8/10/2004	0		0	0.031		0.021	0.5864	0.013	2.6799
8/11/2004	0	0	0	0.029		0.017	0.3392	0.012	2.5187
8/12/2004	0	0	0	0.025		0.017	0.2677	0.006	2.3591
8/13/2004	0	0	0	0.023		0.014	0.2675	0.006	2.3513
8/14/2004	0	0	0	0.023		0.016	0.2157	0.006	2.2474
8/15/2004	0	0	0	0.023		0.012	0.2239	0.006	2.1421
8/16/2004	0		0	0.023		0.012	0.2382	0.006	2.1941
8/17/2004		0	0	0.021		0.009	0.5911	0.006	2.4955
8/18/2004	0	0	0	0.024		0.009	0.353333333	0	2.2501
8/19/2004	0	0	0	0.02		0.007	0.3008	0.006	2.3861
8/20/2004		0	0	0.018		0.006	0.3012	0.006	2.2816
8/21/2004	0	3.7	0	0.018		0.008	0.8631	0.006	2.5001
8/22/2004	0	0	0	0.018		0.007	0.7421	0.006	2.9456
8/23/2004		0	0.1	0.018		0.014	0.3505	0.006	2.4273
8/24/2004	0	0	0	0.024		0.011	0.3363	0.006	2.4999
8/25/2004		0	0	0.023		0.01	0.3211	0.006	2.5502
8/26/2004	0	0	0	0.022		0.016	0.3031	0.006	2.4954
8/27/2004	0	0	0	0.021		0.014	0.271	0.006	2.4896
8/28/2004	0	0	0	0.023		0.015	0.2763	0.006	2.3032
8/29/2004	8.8	4.4	33.5	0.132		0.053	0.3947	0.006	4.2335
8/30/2004	0.6	0.3	0.5	0.256		0.036	0.4701	0.172	5.2474
8/31/2004	0	0	0	0.073		0.018	0.3582	0.026	3.2628
9/1/2004	7.1	5.3		0.061		0.018	0.3501	0.018	3.147
9/2/2004	16	12	1.8	0.083		0.037	0.8387	0.194	7.589
9/3/2004	12.3	4	1.2	0.425		0.191	1.0832	0.805	8.7078
9/4/2004		0	2	0.186		0.109	0.5707	0.082	2.3504
9/5/2004		0	2.1	0.091		0.095	0.433	0.037	1.5347
9/6/2004	7.8		5.5	0.068		0.078	0.4349	0.035	1.9205
9/7/2004	0	0	4.7	0.057		0.07	0.3799	0.042	2.7196
9/8/2004	0	0	0	0.051		0.053	0.3564	0.035	2.4909
9/9/2004	0	0	0	0.045		0.048	0.4136	0.033	2.4805
9/10/2004	0.1	0	0.5	0.044		0.045	0.6072	0.031	2.692
9/11/2004	3.4	3.4	3.3	0.042		0.043	0.3777	0.034	2.5941
9/12/2004	0	0	2.7	0.036		0.045	0.41	0.058	2.9941
9/13/2004	15.1	6	0.4	0.035		0.047	0.3443	0.035	2.3563
9/14/2004	0	0	0.2	0.518		0.248	0.8225	0.411	6.7053
9/15/2004	7.1	0.3	1.5	0.344		0.124	0.6082	0.068	3.6044
9/16/2004	0	0	0.2	0.152		0.1	0.699	0.045	4.6112
9/17/2004	0	0	0	0.104		0.087	0.5621	0.04	3.2989
9/18/2004	0	0		0.091		0.089	0.8426	0.039	3.3435
9/19/2004	0	0		0.079		0.076	0.3755	0.037	2.8567
9/20/2004	0	0.1	0	0.072		0.074	0.3462	0.036	3.0988
9/21/2004	0	0	0	0.072		0.073	0.7052	0.036	3.3488
9/22/2004	0	0	0	0.071		0.07	0.5743	0.035	3.7162
9/23/2004	0	0	0	0.07		0.064	0.3334	0.035	3.2371
9/24/2004	2.2	1.3	0	0.065		0.059	0.3053	0.035	3.1585
9/25/2004	0	0	0	0.061		0.053	0.3012	0.034	2.9728
9/26/2004	0	0	0	0.052		0.051	0.3041	0.035	2.7233
9/27/2004	0	0	0	0.048		0.051	0.2688	0.034	2.7401

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
9/28/2004	0	0	0	0.046		0.056	0.2872	0.034	2.8069
9/29/2004	0	0	0	0.048		0.062	0.2797	0.033	2.8652
9/30/2004	0	0	0	0.048		0.053	0.3068	0.078	2.867
10/1/2004	0	0	0	0.048		0.037	0.3119	0.038	2.8851
10/2/2004	0	0	0	0.046		0.031	0.3153	0.031	2.8426
10/3/2004	0	0	0	0.044		0.035	0.6114	0.027	2.7663
10/4/2004	0		0	0.042		0.042	0.3435	0.029	2.7717
10/5/2004	0	3.6	0	0.039		0.046	0.3493	0.028	2.8919
10/6/2004		0	0	0.041		0.047	0.3233	0.03	2.952
10/7/2004	0	0	0	0.042		0.047		0.032	2.9026
10/8/2004	0	0	0	0.044		0.046	0.3193	0.033	2.9242
10/9/2004	0	0	0	0.044		0.046	0.3065	0.033	2.6937
10/10/2004	0	0	0	0.039		0.035	0.3233	0.035	2.375
10/11/2004	0	0	0	0.036		0.036	0.3042	0.034	2.4353
10/12/2004	0.1	1.6	0.3	0.04		0.042	0.3496	0.064	3.6362
10/13/2004	0	0	0	0.044		0.041	0.3466	0.06	2.9326
10/14/2004	0	0	0	0.044		0.046	0.3448	0.042	2.9193
10/15/2004	0	0	0.1	0.041		0.048	0.3386	0.032	2.9102
10/16/2004	0	0	0	0.038		0.049	0.3185	0.022	2.7236
10/17/2004	0	0	0	0.038		0.05	0.3051	0.023	2.4303
10/18/2004		2.4	0	0.038		0.044	0.3057	0.025	2.618
10/19/2004	0	0	0	0.038		0.043	0.3265	0.02	2.752
10/20/2004	0	0	0	0.038		0.033	0.3216	0.018	2.8393
10/21/2004	0.1	0.1	0.1	0.034		0.035	0.312	0.018	2.7764
10/22/2004	0	0	0	0.032		0.036	0.3146	0.018	2.7719
10/23/2004	0	0	0	0.03		0.035	0.3059	0.019	2.6397
10/24/2004	0	0	0	0.03		0.034	0.3121	0.018	2.4573
10/25/2004	2.6	5.7	1.2	0.031		0.037	0.3123	0.019	2.649
10/26/2004	3	2.1	1.1	0.195		0.122	0.6821	0.19	7.3373
10/27/2004	3.8	3.8	0.5	0.092		0.085	0.3693	0.07	4.0796
10/28/2004	0	0	0.3	0.094		0.085	0.3639	0.059	4.3714
10/29/2004	0	0	0.2	0.069		0.076	0.3666	0.035	3.273
10/30/2004	8.6	11.4	9.2	0.056		0.071	0.3442	0.028	3.115
10/31/2004	9.7	12.1	3.9	0.12		0.089	0.3676	0.106	5.6212
11/1/2004	6.4	10.9	1.7	0.092		0.1	0.3838	0.144	5.3775
11/2/2004	0	0	0	0.074		0.093	0.3574	0.044	3.3117
11/3/2004	0	0	0	0.067		0.086	0.3441	0.037	3.2747
11/4/2004	0.3	0.7	0.3	0.066		0.084	0.3311	0.035	3.2004
11/5/2004	0.3	0.3	0.5	0.059		0.084	0.3295	0.034	3.2253
11/6/2004	0	0	0.1	0.057		0.083	0.3154	0.034	2.9587
11/7/2004	0	0	0	0.054		0.081	0.2892	0.033	2.644
11/8/2004	0	0	0	0.049		0.078	0.3126	0.029	2.8153
11/9/2004	0	0	0	0.052		0.077	0.3146	0.03	2.9925
11/10/2004	0	0	0	0.053		0.081	0.3553	0.029	3.052
11/11/2004	0	0	0	0.054		0.084	0.336	0.029	3.0629
11/12/2004	0	0	0	0.053		0.083	0.3336	0.028	3.0706
11/13/2004	0	0	0	0.048		0.08	0.3236	0.027	2.8845
11/14/2004	0	0	0	0.05		0.078	0.3163	0.027	2.642
11/15/2004	0	0	0	0.047		0.075	0.3025	0.027	2.7168
11/16/2004	0	0	0	0.049		0.077	0.3263	0.033	2.929
11/17/2004	0	0	0	0.055		0.078	0.3327	0.027	3.0451
11/18/2004	0	0	0	0.056		0.079	0.3306	0.028	3.0662
11/19/2004	0	0	0	0.06		0.08	0.3118	0.028	3.0913

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11/20/2004		0	0	0.058		0.08	0.3019	0.028	2.9678
11/21/2004	0	0	0	0.055		0.078	0.2715	0.026	2.7152
11/22/2004	0	0	0	0.049		0.075	0.3368	0.026	2.8593
11/23/2004	0	0	0	0.05		0.071	0.3274	0.027	2.9163
11/24/2004	0	0	0	0.054		0.075	0.3232	0.028	2.9327
11/25/2004	0	0	0	0.054		0.075	0.3217	0.027	2.9088
11/26/2004	0	15	0	0.052		0.075	0.3353	0.027	2.9698
11/27/2004	0	0	0	0.053		0.073	0.3431	0.029	2.8073
11/28/2004	2.8	0	3.3	0.054		0.069	0.3116	0.03	2.5782
11/29/2004	0	0.9	0	0.068		0.076	0.4123	0.043	3.5868
11/30/2004	0	0	0	0.072		0.073	0.3654	0.041	3.0643
12/1/2004	10.9	3.8	10.8	0.069		0.099	0.4551	0.062	4.0959
12/2/2004	0	0	0	0.266		0.129	0.7027	0.205	7.2182
12/3/2004	2.5	3.9	0.9	0.095		0.088	0.3642	0.048	3.7136
12/4/2004	6.7	6.4	8.7	0.091		0.115	1.0032	0.17	6.1251
12/5/2004	0	0	0.1	0.171		0.116	0.7088	0.214	6.9671
12/6/2004	1.2	1.9	5	0.097		0.108	0.4898	0.057	3.1491
12/7/2004	1.3	1	0.4	0.22		0.119	0.3992	0.118	4.396
12/8/2004	20.3	9.9	17.2	0.248		0.167	0.5158	0.17	5.8291
12/9/2004	0.6	0.1	0.4	0.775		0.183	0.6595	0.247	7.6004
12/10/2004	0	0	0	0.673		0.185	0.3924	0.059	4.5966
12/11/2004	0	0	0	0.259		0.189	0.3568	0.046	3.927
12/12/2004	0	0	0	0.141		0.179	0.3982	0.046	3.37
12/13/2004	0	0	0	0.116		0.165	0.4113	0.045	3.3321
12/14/2004	0	0	0	0.122		0.155	0.3567	0.044	3.4364
12/15/2004	0	0	0	0.115		0.139	0.3727	0.042	3.4012
12/16/2004	0	0	0	0.104		0.129	0.4167	0.042	3.3636
12/17/2004	0	0	0	0.095		0.122	0.4418	0.042	3.284
12/18/2004	0	0	0	0.092		0.119	0.4565	0.043	3.068
12/19/2004	0	0	0	0.088		0.114	0.4207	0.041	2.8457
12/20/2004	12.4	8.3	0	0.083		0.1	0.4525	0.04	2.969
12/21/2004	0	0	0	0.084		0.099	0.4899	0.036	3.062
12/22/2004	0	0	0	0.084		0.097	0.4401	0.038	3.1433
12/23/2004	0	0	0	0.08		0.096	0.4756	0.037	3.1418
12/24/2004	0	0	0	0.083		0.095	0.4666	0.037	3.0987
12/25/2004	10.7	13.7	9.3	0.089		0.109	0.5453	0.062	3.9716
12/26/2004	0	0	0	0.166		0.124	0.5453	0.146	5.1437
12/27/2004	0	0	0	0.096		0.105	0.4015	0.052	2.9305
12/28/2004	0	0	0	0.09		0.101	0.353	0.046	2.9305
12/29/2004	0	0	0	0.081		0.097	0.3314	0.044	2.9305
12/30/2004	0	0	0	0.081		0.098	0.3423	0.042	2.9305
12/31/2004	0	0	0	0.079		0.095	0.3404	0.042	2.8364
1/1/2005	0	0	0	0.081		0.089	0.3384	0.038	2.5885
1/2/2005	0	0	0	0.079		0.09	0.3266	0.038	2.7323
1/3/2005	0	0	0	0.078		0.09	0.3629	0.04	2.7178
1/4/2005	0	0	0	0.077		0.088	0.5339	0.041	2.9878
1/5/2005	0	0	0	0.078		0.084	0.5746	0.042	3.0897
1/6/2005	0	0	0	0.081		0.087	0.3453	0.04	2.6998
1/7/2005	0	2.8	0	0.078		0.09	0.3614	0.039	2.7091
1/8/2005	0		0	0.078		0.092	0.3522	0.039	2.7206
1/9/2005	0	0	0	0.078		0.093	0.3898	0.039	2.6739
1/10/2005	0	0	0	0.078		0.094	0.5029	0.039	2.9916
1/11/2005	0	0	0	0.082		0.097	0.3634	0.038	3.0516

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1/12/2005	0	0	0	0.078		0.098	0.352	0.04	3.0306
1/13/2005	0	0	0	0.078		0.095	0.3623	0.04	3.0965
1/14/2005	0	0	0	0.075		0.093	0.4311	0.041	3.1264
1/15/2005	0	0	0	0.072		0.093	0.4693	0.041	3.0622
1/16/2005	0	0	0	0.071		0.091	0.3442	0.039	2.7473
1/17/2005	0	0	0	0.069		0.093	0.3502	0.04	2.9044
1/18/2005	0	0	0	0.069		0.091	0.3402	0.042	3.0586
1/19/2005	0	0	0	0.07		0.087	0.3388	0.04	3.0169
1/20/2005	0	0	0	0.071		0.088	0.3363	0.039	2.9941
1/21/2005	0	0	0	0.07	0.0014	0.091	0.3275	0.038	2.9918
1/22/2005	0	0	0	0.07	0.0016	0.089	0.34	0.037	2.9354
1/23/2005	0	0	0	0.069	0.0016	0.093	0.3554	0.039	2.7035
1/24/2005			0	0.064	0.0012	0.091	0.3412	0.039	2.7718
1/25/2005	0	0	0	0.065	0.0022	0.09	0.346	0.04	2.7814
1/26/2005	0	0	0	0.067	0.0024	0.092	0.34	0.041	2.906
1/27/2005	0	0	0	0.068	0.0033	0.098	0.3809	0.043	3.0035
1/28/2005	0	0	0	0.071	0.0033	0.099	0.3508	0.044	3.0886
1/29/2005	0	0	0	0.073	0.0019	0.095	0.3421	0.043	2.9394
1/30/2005	0	0	0	0.067	0.0022	0.088	0.349	0.042	2.5945
1/31/2005	0	0	0	0.061	0.0026	0.072	0.3396	0.039	2.7467
2/1/2005	0	0	0	0.061	0.0023	0.069	0.3323	0.033	2.9317
2/2/2005	0	0	0	0.067	0.0023	0.065	0.3552	0.03	2.9536
2/3/2005	0	0	0	0.065	0.0015	0.073	0.3479	0.032	2.8161
2/4/2005	0	0	0	0.066	0.0031	0.063	0.3474	0.033	2.8229
2/5/2005	0.8	2.3	0.1	0.068	0.0019	0.054	0.3482	0.032	2.7078
2/6/2005	17.4	13.4	12.6	0.069	0.0024	0.054	0.6178	0.051	4.1663
2/7/2005	9.5		4.4	0.267	0.0032	0.117	0.9119	0.272	7.1949
2/8/2005	9.3	6.8	7.7	0.408	0.0021	0.141	1.0881	0.208	7.2761
2/9/2005	0.4	0	0	0.592	0.0031	0.168	1.0733	0.402	8.6621
2/10/2005	0	19	0	0.223	0.0024	0.153	0.6759	0.058	4.1496
2/11/2005	0	0	0	0.154	0.0018	0.157	0.5732	0.044	3.6703
2/12/2005	0	0	0	0.132	0.0014	0.144	0.3784	0.041	3.3307
2/13/2005	0	0		0.114	0.0014	0.129	0.3629	0.042	2.9906
2/14/2005	0	0		0.115	0.0014	0.122	0.3613	0.043	3.0614
2/15/2005	0	0		0.111	0.0018	0.118	0.3781	0.044	3.239
2/16/2005	0	0	0	0.098	0.0023	0.111	0.3329	0.043	3.1098
2/17/2005	0	0	0	0.092	0.006	0.086	0.339	0.044	3.0182
2/18/2005	0	0	0	0.08	0.0028	0.08	0.3448	0.044	3.0004
2/19/2005	0	0	0	0.088	0.0028	0.075	0.3349	0.043	2.8879
2/20/2005	5	9.4	1.3	0.081	0.0017	0.079	0.3391	0.045	2.7353
2/21/2005	0	0	0	0.1	0	0.092	0.3911	0.081	3.4526
2/22/2005	0.2	0.2	0	0.083	0.0006	0.087	0.4495	0.052	3.0913
2/23/2005		0	0	0.081	0.0119	0.08	0.3559	0.047	3.0065
2/24/2005		0.1	0	0.079	0.0284	0.069	0.3506	0.044	2.9165
2/25/2005		0	0	0.08	0.0348	0.068	0.3444	0.044	2.9276
2/26/2005	0	0	0	0.081	0.0269	0.061	0.3461	0.043	2.7304
2/27/2005	13	10	1.9	0.076	0.0237	0.056	0.4888	0.042	2.597
2/28/2005	0	2.6	0	0.077	0.0247	0.059	0.7795	0.051	3.5433
3/1/2005	0	0	0	0.084	0.0288	0.06	0.3875	0.044	2.9518
3/2/2005		0	0	0.077	0.0387	0.058	0.3595	0.042	2.8448
3/3/2005	0	0	0	0.077	0.0261	0.056	0.4777	0.04	2.9099
3/4/2005	0	0	0	0.079	0.0288	0.061	0.3673	0.04	2.8311
3/5/2005	0	0	0	0.075	0.032	0.066	0.3917	0.04	2.7497

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3/6/2005	0	0	0	0.064	0.022	0.067	0.3549	0.039	2.4753
3/7/2005	0	0	0	0.059	0.0282	0.07	0.3604	0.039	2.5164
3/8/2005	0	0	0	0.056	0.0287	0.078	0.3632	0.04	2.6706
3/9/2005	0	0	0	0.063	0.0269	0.066	0.3279	0.04	2.6754
3/10/2005	0	0	0	0.069	0.0306	0.063	0.3442	0.039	2.7304
3/11/2005	6.9	8.8	8.8	0.069	0.0348	0.072	0.4246	0.112	5.5141
3/12/2005	0	0	0	0.079	0.0291	0.085	0.3549	0.057	3.6383
3/13/2005	0	0	0	0.064	0.0275	0.086	0.4013	0.041	3.1736
3/14/2005		0	0	0.058	0.0385	0.089	0.3511	0.037	3.2949
3/15/2005	0	0	0	0.057	0.0368	0.091	0.3455	0.033	3.3566
3/16/2005	0	0	0	0.058	0.0289	0.082	0.356	0.033	3.3856
3/17/2005	0	0	0	0.059	0.0228	0.085	0.3607	0.032	3.3711
3/18/2005	0	0	0	0.055	0.0199	0.088	0.3438	0.028	3.3591
3/19/2005	0	0	0	0.052	0.0168	0.082	0.3507	0.027	3.1468
3/20/2005	0	0	0	0.049	0.0132	0.082	0.3486	0.027	2.8393
3/21/2005	0.9	0.6	0.1	0.049	0.0226	0.073	0.3491	0.028	2.9406
3/22/2005	0	0	0	0.051	0.0269	0.086	0.3542	0.027	3.0127
3/23/2005	1.8	2.4	5.5	0.054	0.0272	0.098	0.3611	0.051	3.7301
3/24/2005	0.4	0	0.1	0.067	0.0191	0.079	0.3679	0.042	3.4502
3/25/2005		0	0	0.052	0.0205	0.09	0.3545	0.037	2.884
3/26/2005		0	0	0.046	0.0153	0.086	0.345	0.034	2.7179
3/27/2005	0	0	0	0.043	0.0115	0.086	0.3313	0.03	2.559
3/28/2005	0	0	0	0.042	0.013	0.081	0.3446	0.028	2.6938
3/29/2005	8.3	7.3	8.8	0.131	0.0172	0.101	0.4764	0.108	4.9501
3/30/2005	0	0	0	0.205	0.0155	0.113	0.4695	0.114	4.6378
3/31/2005	0	0	0	0.089	0.0155	0.105	0.4015	0.045	3.5291
4/1/2005	0	0	0	0.064	0.0164	0.099	0.378	0.04	3.4998
4/2/2005		0	0	0.061	0.0167	0.098	0.342	0.04	3.266
4/3/2005	0	0	0	0.056	0.0136	0.097	0.3312	0.038	3.04
4/4/2005	0	0	0	0.05	0.0111	0.053	0.3299	0.039	3.2877
4/5/2005	0	0	0	0.054	0.016	0.043	0.3205	0.038	3.316
4/6/2005	0	0	0	0.057	0.0179	0.039	0.3352	0.037	3.4195
4/7/2005	0	0	0	0.059	0.0154	0.038	0.331	0.036	3.5288
4/8/2005	13.7	3	1.3	0.07	0.0237	0.039	0.3621	0.044	4.0121
4/9/2005	0	0.1	0	0.088	0.0189	0.048	0.4227	0.055	3.969
4/10/2005	0	0	0	0.07	0.018	0.037	0.4135	0.036	3.1549
4/11/2005	0	0	0	0.061	0.0206	0.023	0.3691	0.033	3.3537
4/12/2005	0	0	0	0.062	0.0229	0.012	0.3579	0.032	3.3991
4/13/2005	0	0	0	0.06	0.0259	0.002	0.3677	0.034	3.4035
4/14/2005	0	0	0.3	0.062	0.0273	0	0.369	0.035	3.5188
4/15/2005	0.3	0.3	0.2	0.088	0.0267	0.012	0.4476	0.039	3.7209
4/16/2005	0	0	0	0.137	0.0245	0.036	0.5962	0.045	4.5111
4/17/2005	0	0	0	0.059	0.0146	0.01	0.3336	0.035	3.3701
4/18/2005		0	0	0.056	0.0139	0	0.3203	0.03	3.399
4/19/2005	0	0	0	0.053	0.0176	0	0.3212	0.027	3.4487
4/20/2005		0	0	0.041	0.0188	0	0.3211	0.029	3.458
4/21/2005	0	0.1	0.3	0.039	0.0211	0	0.3093	0.027	3.4432
4/22/2005	0.1	0	0	0.041	0.0178	0	0.3257	0.034	3.3881
4/23/2005	0	0	0	0.037	0.0247	0	0.2956	0.028	3.0656
4/24/2005	0	0	1.2	0.041	0.0237	0.006	0.2892	0.033	3.1442
4/25/2005	0	0	0	0.084	0.0204	0.009	0.3496	0.045	3.4802
4/26/2005	0	0		0.051	0.0217	0	0.3242	0.039	3.5165
4/27/2005	0	0		0.033	0.0202	0	0.322	0.038	3.4301

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
4/28/2005	0	0	0	0.023	0.0181	0	0.342	0.037	3.527
4/29/2005	0	0	0	0.024	0.0155	0	0.2707	0.036	3.3132
4/30/2005	0	0	0	0.021	0.0195	0	0.2605	0.036	3.1318
5/1/2005		0	0	0.023	0.015	0	0.2906	0.036	2.8871
5/2/2005	3.3	3.2	4.8	0.018	0.0226	0	0.3314	0.036	3.197
5/3/2005	0	0	0	0.027	0.0274	0	0.3441	0.036	3.7795
5/4/2005	0	0.2	0	0.027	0.0304	0	0.3207	0.036	3.3163
5/5/2005		0.3	0.7	0.026	0.0173	0.008	0.2922	0.05	3.6407
5/6/2005	0	0	0	0.029	0.0093	0.019	0.2831	0.059	3.3191
5/7/2005	0	0	0	0.03	0.0108	0.017	0.2529	0.037	3.0141
5/8/2005	0	0	0	0.031	0.0091	0.019	0.2529	0.036	2.6705
5/9/2005	0.1	0	0.3	0.031	0.01	0.015	0.2807	0.033	2.8834
5/10/2005	0	0	0	0.033	0.0091	0.021	0.3569	0.029	3.1287
5/11/2005	0	0	0	0.03	0.0106	0.02	0.3442	0.028	3.2043
5/12/2005	0	0	0	0.03	0.0093	0.017	0.329	0.023	3.1455
5/13/2005	1.3	1.1	5.5	0.032	0.0092	0.006	0.3038	0.023	3.0937
5/14/2005	0	16.7	0	0.038	0.0089	0.002	0.2949	0.037	3.6183
5/15/2005	4.3	1.7	1.7	0.037	0.0092	0	0.2809	0.028	2.7183
5/16/2005	11.4	19.2	37.9	0.037	0.0081	0	0.3149	0.026	3.2103
5/17/2005	11.7	13.1	40.1	0.511	0.0362	0.202	1.3032	1.625	10.9804
5/18/2005	0	0	0	0.166	0.0149	0.057	0.6964	0.108	7.1949
5/19/2005	0	19.7	0	0.068	0.0099	0.061	0.5277	0.037	6.3281
5/20/2005	0	22.6	0	0.048	0.0082	0.044	0.3941	0.025	15.2287
5/21/2005	0		0	0.031	0.008	0.022	0.3349	0.019	21.0734
5/22/2005	1.2		2	0.085	0.0082	0.017	0.3037	0.017	21.2537
5/23/2005	0	0	0	0.109	0.0083	0.01	0.3494	0.017	21.6414
5/24/2005	0	0	0	0.053	0.0092	0	0.3217	0.004	21.6025
5/25/2005	0	0	0	0.016	0.0092	0	0.3133	0	10.7976
5/26/2005	0	1.1	0	0.014	0.0178	0	0.2809	0	2.4334
5/27/2005	0	0	0	0.012	0.0349	0	0.2707	0	2.3565
5/28/2005	0	0	0	0.011	0.0371	0	0.2605	0	2.1991
5/29/2005	0	0	0	0.011	0.0409	0	0.2603	0	2.0313
5/30/2005		0	0	0.01	0.0428	0	0.2632	0	2.2105
5/31/2005		0	0	0.012	0.0514	0	0.3394	0	2.4662
6/1/2005			0	0.012	0.0421	0	0.2884	0	2.5049
6/2/2005	0	2.5	0	0.01	0.0375	0.003	0.2625	0	2.5255
6/3/2005	0	0	0	0.011	0.0447	0.002	0.278	0	2.5372
6/4/2005	0	0	0	0.01	0.0395	0	0.3152	0	2.4275
6/5/2005	0	0	0	0.01	0.0445	0	0.2257	0	2.1977
6/6/2005		0	0	0.011	0.0334	0	0.2481	0	2.387
6/7/2005	0	0	0	0.009	0.0408	0	0.2093	0	2.5765
6/8/2005	0	0	0	0.008	0.0448	0	0.2374	0	2.5991
6/9/2005	0	0	0	0.008	0.0519	0	0.2532	0	2.6197
6/10/2005	0	0	0	0.008	0.05	0	0.3024	0	2.5803
6/11/2005		0	0	0.009	0.0578	0	0.2871	0	2.4272
6/12/2005	0	0	0	0.01	0.0498	0	0.3161	0	2.2981
6/13/2005	1.8	3.6	0.2	0.012	0.0398	0	0.3161	0	2.6622
6/14/2005	9.4	6	2.3	0.149	0.0465	0.029	0.5411	0.662	6.6867
6/15/2005	0	0	0.7	0.123	0.0319	0.008	0.3837	0.129	4.2927
6/16/2005	0	0	0	0.028	0.0315	0	0.3067	0.001	3.1829
6/17/2005	0	0	0	0.012	0.0315	0	0.2899	0	3.0533
6/18/2005	0	0	0	0.01	0.029	0	0.218	0	2.6865
6/19/2005	0	0	0	0.011	0.0288	0	0.1658	0	2.45

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
6/20/2005	0.1	0	0.1	0.012	0.0269	0	0.2595	0	2.8432
6/21/2005	0	0	0	0.015	0.0314	0	0.2446	0	2.9182
6/22/2005	0	0	0	0.013	0.0289	0	0.2229	0	3.0116
6/23/2005	0	0	0	0.012	0.032	0	0.2089	0	2.8901
6/24/2005	0	0	0	0.008	0.0227	0	0.1641	0	2.4042
6/25/2005	0	0	0	0.008	0.0221	0	0.135	0	2.2577
6/26/2005	0	0	0	0.009	0.0257	0	0.1499	0	2.2523
6/27/2005		0	0	0.009	0.0176	0	0.1296	0	2.6221
6/28/2005	0.2	0.1	0.1	0.008	0.0266	0	0.1451	0	2.8719
6/29/2005	0	0	0	0.008	0.0267	0	0.1167	0	2.7627
6/30/2005		0	0	0.008	0.0425	0	0.1858	0	2.7551
7/1/2005	0.4	0	0	0.009	0.0456	0	0.1655	0	2.7624
7/2/2005		0	0	0.013	0.0399	0	0.1751	0	2.5786
7/3/2005	0	0	0	0.012	0.0348	0	0.1374	0	2.3099
7/4/2005		0	0	0.008	0.0322	0	0.1627	0	2.4759
7/5/2005	0	0.5	0	0.006	0.0116	0	0.1703	0	2.6063
7/6/2005		0	0	0.004	0.0164	0	0.1285	0	2.6527
7/7/2005	0.6	0.3		0.005	0.0382	0	0.1411	0	2.6918
7/8/2005	3.7			0.008	0.0431	0	0.1835	0	2.7445
7/9/2005	0.2	0		0.011	0.0462	0	0.1851	0	4.013
7/10/2005	2.2	0.3		0.086	0.051	0	0.2419	0.002	5.5793
7/11/2005	0	0	0	0.028	0.034	0	0.1793	0	2.6837
7/12/2005	0	0	0	0.012	0.0413	0	0.1888	0	2.4934
7/13/2005	0	0	0	0.01	0.0392	0	0.1547	0	2.7186
7/14/2005	0	0	0	0.009	0.0416	0	0.2028	0	2.8401
7/15/2005	0	0	0	0.008	0.028	0	0.1671	0	2.811
7/16/2005	0	0	0	0.007	0.0336	0	0.1751	0	2.7198
7/17/2005	0	0	0	0.008	0.0362	0	0.1514	0	2.471
7/18/2005	0	0	0	0.008	0.028	0	0.1387	0	2.7935
7/19/2005	0	0	0	0.007	0.0377	0	0.1527	0	2.8621
7/20/2005	0	0	0	0.003	0.0412	0	0.1313	0	3.0685
7/21/2005	0	0	0	0.005	0.0296	0	0.1352	0	3.0389
7/22/2005	0	0	0	0.005	0.0332	0	0.1277	0	3.0253
7/23/2005	0	0	0	0.006	0.0305	0	0.1084	0	2.9221
7/24/2005	0	0	0	0.006	0.0249	0	0.1148	0	2.7416
7/25/2005	0	0	0	0.007	0.0311	0	0.1157	0	3.1214
7/26/2005	0	0	0	0.004	0.022729167	0	0.124729167	0	3.353118056
7/27/2005	0	0	0	0.004	0.0221	0	0.1014	0	3.4849
7/28/2005	0	0	0	0.002	0.0158	0	0.1057	0	3.5328
7/29/2005	0	0	0	0.003	0.0249	0	0.1016	0	3.5489
7/30/2005	0.7	3.1	0	0.011	0.0287	0	0.1201	0	4.4791
7/31/2005	0	0	0	0.014	0.0328	0	0.1094	0	3.3572
8/1/2005	6.8	7.4		0.01	0.0304	0	0.1552	0	4.084
8/2/2005	20.2	17.4		0.063	0.0662	0.124	1.1391	1.106	10.0533
8/3/2005	0	0		0.035	0.0175	0.027	0.6906	0.149	2.1787
8/4/2005	0	0	0	0.011	0.016	0	0.2571	0	1.8622
8/5/2005	0		0	0.008	0.0131	0	0.1909	0	2.1451
8/6/2005	0	22	0	0.008	0.0124	0	0.1626	0	1.772
8/7/2005	0	0	0	0.008	0.0145	0	0.1824	0	2.823
8/8/2005		0	1.3	0.008	0.0103	0	0.1826	0	3.8742
8/9/2005	0.7	0.8		0.007	0.014	0	0.1843	0	16.1492
8/10/2005	0.6	0.1		0.008	0.0268	0	0.1926	0	8.9363
8/11/2005	0.6	0.1	4	0.009	0.0175	0	0.1829	0	3.2554

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8/12/2005	0	0	0	0.022	0.0154	0	0.171	0	2.1862
8/13/2005	0	0	0	0.011	0.0197	0	0.1326	0	1.9266
8/14/2005	0	0	0	0.007	0.0257	0	0.1231	0	2.0438
8/15/2005		0	0	0.007	0.0204	0	0.1381	0	2.2915
8/16/2005	0.2	0	0	0.007	0.0168	0	0.1538	0	2.4621
8/17/2005	2	0.5	4	0.007	0.0169	0	0.1955	0	2.4278
8/18/2005	0	0.1	0.3	0.006	0.0279	0	0.1658	0.001	3.3916
8/19/2005	0.1	5.9	0	0.014	0.0306	0	0.1693	0.001	2.7269
8/20/2005		1.3	0.5	0.188	0.0191	0.016	0.2959	0.145	3.9811
8/21/2005	0	0	0	0.162	0.0205	0.01	0.303	0.086	3.5224
8/22/2005	0	0	0	0.027	0.0154	0	0.1702	0	2.7102
8/23/2005	0	0	0	0.016	0.0172	0	0.1577	0	2.6179
8/24/2005	0	0	0	0.013	0.0119	0	0.1341	0	2.6052
8/25/2005	0	0	0	0.011	0.0177	0	0.1377	0	2.537
8/26/2005	0	0	0	0.01	0.0144	0	0.1388	0	2.5665
8/27/2005	10.5	3.5	36	0.011	0.0181	0.001	0.1664	0.045	4.4142
8/28/2005	0	0	0	0.013	0.0245	0	0.1667	0.027	3.98239
8/29/2005	0	0	0	0.013	0.0233	0	0.1386	0	2.51773
8/30/2005	0	0	0	0.011	0.0221	0	0.1461	0	2.72866
8/31/2005	0	0	0	0.01	0.0236	0	0.174	0	2.82978
9/1/2005	0		0	0.01	0.022	0	0.1168	0	2.8674
9/2/2005	0	0	0	0.01	0.0238	0	0.1246	0	2.4476
9/3/2005	0	0	0	0.01	0.029	0	0.1152	0	1.9259
9/4/2005	0	0	0	0.009	0.0256	0	0.13	0	1.8632
9/5/2005	39.1	19.9	28.1	0.007	0.0306	0	0.1332	0	1.9962
9/6/2005	0	1.9	1.7	0.228	0.0236	0.05	0.7219	0.462	5.3168
9/7/2005	18.9	18.5	23.8	0.054	0.0456	0.027	0.449	0.606	8.23
9/8/2005	15.3	12.7	1.2	0.382	0.0414	0.167	0.9638	1.537	9.23
9/9/2005	0	0	0	0.09	0.0261	0.047	0.3211	0.127	10.18231
9/10/2005	2.5	0	0	0.048	0.0284	0.048	0.2644	0.021	6.71105
9/11/2005	0	0	0	0.041	0.0229	0.031	0.2241	0	4.6847
9/12/2005	0	0	0	0.064	0.0168	0.018	0.2162	0	5.16265
9/13/2005	1.8	11.8	10.7	0.1	0.0216	0.007	0.2634	0.437	5.7447
9/14/2005	0	0	0	0.12	0.0217	0.025	0.404	0.072	4.4142
9/15/2005	0	0	0	0.046	0.0204	0.024	0.2811	0.018	2.4476
9/16/2005	5.5	6.5	6.7	0.033	0.0187	0.014	0.2604	0.001	2.6052
9/17/2005	11	7.3	23.2	0.437	0.033	0.068	0.7487	0.633	2.9162
9/18/2005	0	0	0	0.411	0.0249	0.044	0.3384	0.089	11.8026
9/19/2005	0		0	0.074	0.0223	0.085	0.2972	0.025	7.40546
9/20/2005	0	0	0	0.052	0.0258	0.086	0.2571	0.011	6.61546
9/21/2005	0	0	0	0.042	0.0243	0.07	0.2792	0.001	6.24653
9/22/2005	0	0	0	0.038	0.0199	0.053	0.2784	0	5.62006
9/23/2005	0	0	0	0.038	0.031	0.035	0.2528	0	5.10814
9/24/2005		0	0	0.038	0.0241	0.026	0.2126	0	4.38687
9/25/2005	11.5	9.6	39.2	0.06	0.025	0.138	0.4492	2.34	4.2726
9/26/2005	0	0	0	0.159	0.0266	0.116	0.8485	0.741	10.59174
9/27/2005	0	0	0	0.064	0.0225	0.062	0.3315	0.073	3.99304
9/28/2005	0	0	0	0.047	0.0248	0.039	0.307	0.04	3.32462
9/29/2005		3.2	0	0.038	0.0271	0.02	0.3039	0.19	2.9469
9/30/2005	0	0		0.033	0.0233	0.008	0.3064	0.042	2.81732
10/1/2005		1.8		0.027	0.0247	0.011	0.2631	0.03	2.41756
10/2/2005	0			0.027	0.0152	0.034	0.2496	0.027	2.32294
10/3/2005	0	0		0.025	0.0212	0.026	0.22	0.025	2.1853

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10/4/2005	0	0		0.023	0.0291	0.005	0.239	0.025	2.7052
10/5/2005	0.2	8.1		0.025	0.0363	0	0.2459	0.022	2.7619
10/6/2005	0	0.2		0.023	0.0362	0.063	0.253	0.022	3.0254
10/7/2005	0	0		0.023	0.034	0.041	0.2867	0.023	2.9782
10/8/2005	0	2.5		0.022	0.0397	0.013	0.2418	0.022	2.7076
10/9/2005	0	0		0.018	0.0368	0.001	0.2022	0.021	2.4981
10/10/2005	2.1	0.7		0.018	0.0361	0.001	0.2163	0.02	2.7417
10/11/2005	1.5	0.4		0.021	0.0378	0.019	0.2485	0.022	3.2711
10/12/2005	68.8	112.6		0.037	0.0548	0.102	0.4008	1.268	8.9227
10/13/2005	16	7.5		1.096	1.1851	0.505	2.5655	3.976	26.8262
10/14/2005	16.7	11.5		1.348	0.1987	0.363	1.6117	1.865	19.0427
10/15/2005	4.2			3.812	1.5241	0.442	1.445	4.772	26.3666
10/16/2005	0	0		1.617		0.436	1.265	2.155	18.8957
10/17/2005	16	3.6		1.125		0.287	1.0377	0.769	10.6725
10/18/2005	1.2	0.1		9.685		0.488	1.1076	2.46	20.5531
10/19/2005	0	0		2.441		0.476	1.0611	1.312	16.9683
10/20/2005	0	0		1.378		0.341	0.8736	0.624	10.6273
10/21/2005	0	0		1.14		0.264	0.6834	0.423	8.0296
10/22/2005	0	0		0.727		0.227	0.5282	0.296	6.5653
10/23/2005		0		0.941		0.217	0.4053	0.232	5.3994
10/24/2005	0	0		1.003		0.207	0.4024	0.459	7.1468
10/25/2005	0	0		0.573		0.186	0.3903	0.223	5.5161
10/26/2005	0	0		0.394		0.178	0.3753	0.179	5.0123
10/27/2005		0		0.325		0.169	0.3767	0.147	4.8476
10/28/2005	0.1	0		0.261		0.163	0.3731	0.116	4.7058
10/29/2005	0.3	0		0.223		0.154	0.3631	0.081	4.4132
10/30/2005	0	0		0.189		0.149	0.3521	0.072	3.9861
10/31/2005		0		0.218		0.147	0.3497	0.063	3.95
11/1/2005	0	0		0.213		0.145	0.3412	0.054	3.9279
11/2/2005	0	0		0.176		0.139	0.3403	0.05	3.9342
11/3/2005	0	0.1		0.168		0.136	0.3443	0.049	4.114
11/4/2005		0		0.163		0.129	0.3412	0.047	4.1446
11/5/2005	0	0		0.16		0.126	0.3402	0.047	3.9135
11/6/2005	0	0		0.159		0.124	0.3321	0.045	3.6122
11/7/2005	0	0		0.155		0.12	0.3349	0.045	3.7392
11/8/2005	12.1	0.4		0.155		0.115	0.3336	0.045	3.8096
11/9/2005	32.5	26	28	0.217		0.183	0.9726	0.55	12.7149
11/10/2005	0.4	0.1	0	0.212		0.146	0.6157	0.25	6.5369
11/11/2005	2.8	0.4	0.9	0.168		0.132	0.3766	0.116	4.487
11/12/2005	20.5	23.3	9.1	0.163		0.121	0.3616	0.113	4.0102
11/13/2005	39.5	13.5	9.5	0.22		0.2	0.7913	1.579	15.494
11/14/2005	17.1		10.1	0.273		0.244	0.7787	1.399	16.5467
11/15/2005	15.3	5.1	6.4	1.289		0.284	1.3251	1.711	16.6315
11/16/2005	0	0	2.7	0.849		0.246	0.9256	0.877	10.4243
11/17/2005	0.3	0	0.7	0.527		0.227	0.7009	0.611	8.1473
11/18/2005		0.1	0.3	0.386		0.215	0.5601	0.476	7.1086
11/19/2005	0	0	0.7	0.31		0.21	0.486	0.369	6.1917
11/20/2005	0	0	0.9	0.25		0.198	0.4277	0.31	5.4193
11/21/2005	0	0	1.5	0.222		0.191	0.403	0.275	5.4914
11/22/2005	0	0	1	0.209		0.184	0.4047	0.258	5.4832
11/23/2005		0	0.4	0.191		0.18	0.4036	0.239	5.3756
11/24/2005	0	0	0.4	0.188		0.178	0.4005	0.214	5.1609
11/25/2005		0	0.4	0.186		0.173	0.4053	0.211	5.1337

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
11/26/2005	0	0	0.2	0.184		0.168	0.3856	0.194	4.8207
11/27/2005	0	0	0.1	0.176		0.162	0.3682	0.18	4.4453
11/28/2005	0	0	0.1	0.17		0.156	0.362	0.169	4.5328
11/29/2005	0	0.9	0	0.172		0.15	0.3647	0.16	4.5893
11/30/2005	0	0	0	0.168		0.145	0.3659	0.154	4.4566
12/1/2005		0	0	0.164		0.143	0.3627	0.144	4.4121
12/2/2005	3.1	2.5	7.7	0.351		0.173	0.5875	0.439	7.6062
12/3/2005	0	0	0	0.288		0.168	0.4483	0.235	5.2211
12/4/2005		0.1	0	0.187		0.16	0.3617	0.155	4.2169
12/5/2005	0	0	0	0.183		0.158	0.3554	0.142	4.2597
12/6/2005	0	0	0	0.183		0.156	0.3519	0.125	4.216
12/7/2005	0	0	0	0.176		0.152	0.3479	0.116	4.0428
12/8/2005	0	0	0	0.169		0.147	0.3536	0.12	3.9401
12/9/2005	0	0	0	0.167		0.143	0.3502	0.114	3.7575
12/10/2005	0	0	0	0.163		0.139	0.3408	0.109	3.7235
12/11/2005	0	0	0	0.163		0.136	0.3315	0.105	3.5289
12/12/2005	0	4.2	0	0.163		0.137	0.3773	0.106	3.6599
12/13/2005			0	0.163		0.133	0.3897	0.103	3.7872
12/14/2005	0		0	0.162		0.134	0.378	0.104	3.7821
12/15/2005	0	0	0	0.162		0.133	0.385	0.103	3.8085
12/16/2005	0	0	0	0.16		0.132	0.3664	0.093	3.7936
12/17/2005	0	0	0	0.156		0.129	0.3532	0.09	3.6167
12/18/2005		0.6	0	0.155		0.126	0.3448	0.082	3.3185
12/19/2005	0	0.1	0	0.155		0.123	0.3389	0.077	3.4432
12/20/2005	0	0	0	0.155		0.121	0.3415	0.082	3.6215
12/21/2005	0	3.8	0	0.155		0.12	0.3525	0.087	3.6102
12/22/2005	0		0	0.155		0.12	0.3473	0.083	3.6284
12/23/2005	0	3.4	0	0.155		0.117	0.3472	0.079	3.61
12/24/2005	0		0	0.155		0.113	0.341	0.077	3.4772
12/25/2005	0		0	0.155		0.119	0.3397	0.077	3.2657
12/26/2005		0	0	0.155		0.119	0.3453	0.078	3.2557
12/27/2005		6.2	0	0.155		0.121	0.3524	0.079	3.3118
12/28/2005	0		0	0.155		0.122	0.3547	0.075	3.2438
12/29/2005	0			0.155		0.121	0.3746	0.077	3.0932
12/30/2005	0			0.155		0.12	0.3474	0.077	3.1344
12/31/2005				0.152		0.119	0.3406	0.072	3.0915
1/1/2006	0	0	0	0.149		0.118	0.3412	0.071	2.9211
1/2/2006	0	0	0	0.149		0.113	0.368	0.066	3.0618
1/3/2006	0	0	0	0.149		0.105	0.3568	0.066	3.0608
1/4/2006	0.6	0.4	0.3	0.149		0.106	0.3598	0.067	3.071
1/5/2006	4.1	2.3	3.7	0.149		0.113	0.4324	0.139	4.193
1/6/2006	5.1	5.3	2.8	0.149		0.108	0.4925	0.104	3.4783
1/7/2006	31.9	9.9	12.7	0.263		0.175	0.9788	0.6	11.116
1/8/2006	1.3		2.2	4.727		0.23	1.3641	0.938	16.5088
1/9/2006	12.2	1.7	1.7	1.478		0.192	0.8847	0.265	8.4696
1/10/2006	2	0.1	1.2	1.156		0.255	1.2739	0.759	12.3934
1/11/2006	0	0	0.7	0.789		0.182	0.8385	0.257	6.1488
1/12/2006	0	0	0.6	0.589		0.177	0.6894	0.229	5.3382
1/13/2006	0	0	0.7	0.387		0.165	0.6207	0.223	4.9186
1/14/2006	0	0	0.6	0.163		0.162	0.5919	0.219	4.674
1/15/2006	5.4	3.6	0.6	0.158		0.162	0.6733	0.216	4.6686
1/16/2006	1	1.9	0.5	0.155		0.156	0.5957	0.213	4.6872
1/17/2006	0	0	0.8	0.154		0.153	0.5342	0.203	4.6169

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1/18/2006	0	0.1	1.1	0.149		0.152	0.5166	0.197	4.6146
1/19/2006	0	0	0.7	0.149		0.151	0.5214	0.188	4.4338
1/20/2006	0	0	0.1	0.119		0.148	0.4201	0.178	4.2957
1/21/2006	0	9.9	0	0.097		0.145	0.3928	0.177	4.0438
1/22/2006	0		0	0.097		0.147	0.4319	0.17	3.7951
1/23/2006	0	0	0	0.095		0.144	0.4333	0.144	4.0231
1/24/2006	0	6.6	0	0.093		0.14	0.4266	0.123	4.0577
1/25/2006	0		0	0.093		0.14	0.4267	0.117	4.0772
1/26/2006	2.9	5.4	0.8	0.093		0.142	0.3971	0.115	4.1139
1/27/2006	36.6		9.7	0.092		0.2	0.7624	0.503	9.577
1/28/2006	40.3		22.7	0.422		0.388	1.9552	2.249	23.3388
1/29/2006	4.6	4.7	33.1	19.591		0.497	6.7508	3.78	31.6891
1/30/2006	2.4	7	10.2	11.45		0.563	3.2225	2.401	27.1526
1/31/2006	0	11.4	1.8	5.095		0.556	1.8553	1.581	23.1702
2/1/2006	0	9.2	0	2.16		0.5	1.5838	1.183	16.9901
2/2/2006	0	6.9	0	1.638		0.463	1.5046	0.907	14.7902
2/3/2006	0	7.3		1.471		0.42	1.4414	0.754	12.3114
2/4/2006	0			1.354		0.364	1.4016	0.669	10.7614
2/5/2006	0			1.243		0.329	1.3867	0.643	9.5639
2/6/2006	0		0	0.986		0.304	1.3762	0.584	8.9994
2/7/2006	0		0	0.675		0.284	1.2888	0.517	8.4362
2/8/2006	0		0	0.657		0.275	1.2321	0.477	8.0207
2/9/2006	0.1		0	0.645		0.263	1.1985	0.437	7.5367
2/10/2006	0.1		0.1	0.623		0.254	1.1229	0.427	7.3474
2/11/2006	0		0	0.622		0.247	1.0367	0.44	7.1932
2/12/2006	0		0	0.596		0.238	0.8027	0.405	6.5997
2/13/2006	0		0	0.557		0.23	0.8352	0.369	6.4138
2/14/2006	0		0	0.503		0.227	0.8209	0.351	6.3787
2/15/2006			0	0.459		0.225	0.6979	0.343	6.3581
2/16/2006	0		0	0.454		0.222	0.7041	0.29	6.1495
2/17/2006	0		0	0.449		0.215	0.6754	0.268	6.0194
2/18/2006	0		0	0.444		0.211	0.6354	0.259	5.7091
2/19/2006	0.4		0	0.439		0.21	0.6659	0.265	5.4169
2/20/2006	0		0	0.434		0.208	0.6487	0.279	5.63
2/21/2006	13.1		0.4	0.429		0.209	0.6437	0.305	5.986
2/22/2006	0		0.6	0.424		0.211	0.6617	0.3	5.6101
2/23/2006	0		1.1	0.419		0.2	0.632	0.342	5.5311
2/24/2006	0		0	0.414		0.193	0.5835	0.391	5.5533
2/25/2006	0		0.1	0.408		0.185	0.5328	0.269	5.0669
2/26/2006	5.4		1.8	0.403		0.192	0.7201	0.314	6.6488
2/27/2006	0		0.5	0.398		0.192	0.8316	0.256	5.5239
2/28/2006	0		1	0.393		0.183	0.6846	0.226	4.9688
3/1/2006			0	0.388		0.181	0.599	0.263	5.1232
3/2/2006	0		0	0.383		0.182	0.5207	0.233	4.9703
3/3/2006	0		0	0.378		0.175	0.4534	0.187	4.8828
3/4/2006	0.1		0	0.373		0.171	0.4131	0.179	4.7626
3/5/2006	13.5		1.1	0.368		0.18	0.4999	0.405	7.2717
3/6/2006	0		0	0.363		0.169	0.4323	0.202	4.8026
3/7/2006	0		0	0.358		0.163	0.4198	0.185	4.7051
3/8/2006	0		0	0.353		0.158	0.3905	0.183	4.6476
3/9/2006	0		0	0.348		0.155	0.3765	0.171	4.5549
3/10/2006	0		0	0.343		0.152	0.3748	0.167	4.4938
3/11/2006	0		0	0.338		0.149	0.3761	0.147	4.344

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3/12/2006			0	0.333		0.149	0.3742	0.118	4.0781
3/13/2006	0.1		0	0.328		0.15	0.3766	0.12	4.1648
3/14/2006	0		0	0.322		0.148	0.4014	0.113	4.4433
3/15/2006	0		0	0.317		0.145	0.3692	0.098	4.3974
3/16/2006	0		0	0.312		0.143	0.3745	0.097	4.2506
3/17/2006	0		0	0.307		0.147	0.3763	0.107	4.2248
3/18/2006	2.2			0.302		0.151	0.3665	0.105	4.1867
3/19/2006	0.3		0.2	0.297		0.149	0.3969	0.149	4.2806
3/20/2006	1.7			0.292		0.148	0.3981	0.126	4.1254
3/21/2006	0.3			0.287		0.16	0.5288	0.107	4.724
3/22/2006	0			0.282		0.15	0.515	0.183	4.6908
3/23/2006	0			0.277		0.131	0.439635417	0.108	4.335569444
3/24/2006	0			0.272		0.12	0.3927	0.075	4.1259
3/25/2006	0			0.267		0.122	0.3817	0.072	3.8576
3/26/2006	0			0.262		0.128	0.3729	0.087	3.5272
3/27/2006	0			0.257		0.126	0.3688	0.062	3.7528
3/28/2006	0			0.252		0.123	0.3786	0.056	3.9029
3/29/2006	0			0.247		0.117	0.3744	0.056	3.8683
3/30/2006	0		0	0.242		0.115	0.3736	0.053	3.7498
3/31/2006	0			0.236		0.106	0.4403	0.049	3.7361
4/1/2006	0		0	0.231		0.096	0.3822	0.05	3.459
4/2/2006	0		0	0.226		0.092	0.3565	0.049	3.1166
4/3/2006	0		0	0.221		0.098	0.4171	0.064	3.4632
4/4/2006	0		0	0.216		0.11	0.4841	0.086	3.7841
4/5/2006	0		0	0.211		0.108	0.4381	0.094	3.6691
4/6/2006	0		0	0.206		0.103	0.3768	0.088	3.5602
4/7/2006	0		0	0.201		0.1	0.3676	0.093	3.6083
4/8/2006	0		0	0.196		0.092	0.3353	0.13	3.3206
4/9/2006	0		0	0.191		0.076	0.3378	0.242	2.9734
4/10/2006			0	0.186		0.077	0.3421	0.367	3.0817
4/11/2006	0		0	0.181		0.07	0.3475	0.159	3.099
4/12/2006	0		0	0.176		0.064	0.3316	0.038	3.0665
4/13/2006	0		0	0.171		0.067	0.3203	0.039	2.903
4/14/2006	0		0	0.166		0.076	0.3061	0.036	2.7556
4/15/2006	1.7		1.3	0.161		0.075	0.3179	0.033	2.6846
4/16/2006	0		0	0.156		0.071	0.3309	0.031	2.742
4/17/2006	4.4		12.6	0.15		0.085	0.4059	0.065	4.4517
4/18/2006	0		0	0.145		0.089	0.3626	0.045	3.5729
4/19/2006	0		0	0.14		0.088	0.3543	0.035	3.292
4/20/2006			0	0.135		0.096	0.3536	0.074	3.4848
4/21/2006	0		0	0.13		0.119	0.3961	0.079	3.5623
4/22/2006	0		0	0.125		0.101	0.3662	0.06	3.29
4/23/2006	0		0	0.12		0.09	0.3346	0.048	2.8465
4/24/2006	0		0	0.115		0.081	0.3208	0.043	3.0348
4/25/2006	0		0	0.11		0.062	0.278	0.036	3.0593
4/26/2006	0		0	0.105		0.05	0.3087	0.031	3.0138
4/27/2006	0.3		0.8	0.1		0.069	0.328	0.034	3.1398
4/28/2006	0.8		0.6	0.095		0.086	0.3549	0.043	3.2018
4/29/2006	0	14	0	0.09		0.08	0.3096	0.035	2.8843
4/30/2006	0	13.7	0	0.085		0.075	0.2738	0.033	2.5893
5/1/2006	0	0	0	0.08		0.078	0.255	0.027	2.6
5/2/2006	0	0	0	0.075		0.083	0.296	0.027	2.9078
5/3/2006	0	0	0	0.069		0.076	0.344	0.03	3.1291

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
5/4/2006	0.2	0.3	0.4	0.064		0.087	0.2897	0.032	3.1004
5/5/2006	0	0.1	0	0.059		0.09	0.2541	0.031	3.1095
5/6/2006	0	0	0	0.054		0.088	0.3132	0.024	2.8327
5/7/2006	0	0	0	0.049		0.09	0.306	0.015	2.6213
5/8/2006	0	0	0	0.044		0.102	0.3169	0.008	2.8755
5/9/2006	0	0	0	0.039		0.112	0.3089	0.029	2.9974
5/10/2006	0	0	0	0.034		0.121	0.2768	0.026	3.0631
5/11/2006		0	1	0.031		0.121	0.3212	0.035	3.0845
5/12/2006		0	0.1	0.032		0.096	0.3183	0.024	3.0454
5/13/2006	0	0	0	0.032		0.092	0.2915	0.019	2.8087
5/14/2006	0	0	0	0.03		0.089	0.3039	0.011	2.6255
5/15/2006	0	0	0	0.029		0.086	0.2846	0.004	2.7394
5/16/2006	0	0	0	0.032		0.072	0.2479	0.014	2.9204
5/17/2006	0	2.2	0	0.034		0.081	0.1895	0.007	2.8455
5/18/2006	0	1.7	0	0.035		0.07	0.1865	0	2.8392
5/19/2006	0	0	0	0.038		0.071	0.1261	0	2.9672
5/20/2006	0	0	0	0.033		0.076	0.1094	0	2.9844
5/21/2006	0	0	0	0.029		0.072	0.1061	0	2.521
5/22/2006	0	4.2	0	0.027		0.083	0.186	0	2.697
5/23/2006		0	0	0.028		0.076	0.4103	0	2.9412
5/24/2006	0	0	0	0.063		0.054	0.3322	0	3.0084
5/25/2006	0	0	0	0.041		0.054	0.3081	0	2.8251
5/26/2006	0	0	0	0.035		0.059	0.3124	0	2.8705
5/27/2006	0	0	0	0.034		0.055	0.2831	0	2.6492
5/28/2006	0	0	0	0.033		0.051	0.2339	0	2.5185
5/29/2006		0	0	0.031		0.039	0.2482	0.003	2.6349
5/30/2006	2.2	0		0.027		0.047	0.2572	0.001	2.7151
5/31/2006	0.6	0	0.4	0.031		0.063	0.3224	0.082	4.7795
6/1/2006	0		0	0.036		0.043	0.2899	0.029	2.4661
6/2/2006	0		0	0.033		0.027	0.2653	0.009	2.7357
6/3/2006	0	0	0	0.033		0.03	0.2421	0.002	2.7538
6/4/2006	0	0	0	0.03		0.043	0.2177	0	2.5234
6/5/2006		0	0	0.027		0.034	0.2016	0	2.663
6/6/2006	0	0	0	0.027		0.037	0.2451	0	2.6855
6/7/2006	0	0	0	0.028		0.029	0.3155	0	2.7251
6/8/2006	0	0	0	0.032		0.022	0.3969	0	2.7184
6/9/2006		0	0	0.033		0.022	0.3489	0	2.6954
6/10/2006		0	0	0.033		0.022	0.341	0	2.4989
6/11/2006	0	0	0	0.033		0.031	0.3136	0	2.2752
6/12/2006	0	0	0	0.033		0.03	0.3392	0	2.4778
6/13/2006	0	0	0	0.033		0.036	0.3419	0	2.5676
6/14/2006	0	0	0	0.035		0.026	0.3257	0	2.6354
6/15/2006	0.5	0	1.4	0.035		0.029	0.3491	0	2.6759
6/16/2006	1	0	0.1	0.038		0.036	0.3479	0	2.9673
6/17/2006	0	0	0	0.046		0.042	0.3361	0	2.6057
6/18/2006	0	0	0	0.048		0.035	0.3347	0	2.4658
6/19/2006	0	0	0	0.051		0.03	0.3482	0	2.5551
6/20/2006		0	0.2	0.056		0.031	0.3467	0	2.5443
6/21/2006	0	0	0	0.063		0.036	0.319	0	2.6149
6/22/2006	0	0	0	0.062		0.021	0.3647	0	2.6036
6/23/2006	0	0	0	0.059		0.019	0.3499	0	2.6399
6/24/2006	0	0	0	0.057		0.031	0.3485	0	2.3417
6/25/2006	0	0	0	0.051		0.032	0.2996	0	2.1854

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
6/26/2006	0	0	0	0.046		0.031	0.3367	0	2.3527
6/27/2006	0	0	0	0.044		0.027	0.3407	0	2.5627
6/28/2006	0	0	0	0.057		0.034	0.2689	0	2.6871
6/29/2006	0	0	0	0.047		0.041	0.2827	0	2.6772
6/30/2006	0	0	0	0.047		0.037	0.2449	0	2.5227
7/1/2006	0	0	0	0.046		0.038	0.2489	0	2.2557
7/2/2006	0	0	0	0.048		0.02	0.2179	0	2.0021
7/3/2006	0	0	0	0.043		0.024	0.2121	0	2.2623
7/4/2006	0	0	0	0.042		0.026	0.258	0	2.3606
7/5/2006	0	0		0.044		0.023	0.2814	0	2.3454
7/6/2006		0.3		0.049		0.024	0.2955	0	4.1348
7/7/2006	0	0	0	0.048		0.051	0.5202	0.019	3.4491
7/8/2006	0	0	0	0.042		0.029	0.2845	0	2.6316
7/9/2006	0	0	0	0.042		0.022	0.2794	0	2.2312
7/10/2006	0	0	0	0.04		0.021	0.162	0	2.494
7/11/2006	0	0	0	0.041		0.017	0.1046	0	2.3596
7/12/2006	0	0	0	0.042		0.016	0.1015	0	2.3674
7/13/2006		0	0.2	0.05		0.016	0.0882	0	2.4276
7/14/2006	0.1	0.1	0	0.157		0.017	0.0765	0	2.4029
7/15/2006	0	0	0	0.316		0.017	0.0661	0	2.3131
7/16/2006	0	0	0	0.243		0.017	0.0519	0	2.1917
7/17/2006		0	0.5	0.065		0.017	0.042	0	2.3485
7/18/2006	0	0	0	0.065		0.017	0.0296	0	2.4438
7/19/2006	0	0		0.048		0.017	0.0159	0	2.4095
7/20/2006	0	0	0	0.048		0.016	0.014	0	2.392
7/21/2006	0	0	0	0.048		0.016	0.014	0	2.3078
7/22/2006	0	0	0	0.048		0.016	0.014	0	2.1392
7/23/2006	0	0	0	0.046		0.016	0.014	0	1.8496
7/24/2006	0	0	0	0.044		0.015	0.014	0	2.1181
7/25/2006	0	0	0	0.039		0.015	0.014	0	2.223
7/26/2006	0	0	0	0.038		0.014	0.014	0	2.185
7/27/2006		0.1	0	0.034		0.014	0.014	0	2.2035
7/28/2006	0	0	0	0.033		0.014	0.014	0	2.1618
7/29/2006	0	0	0	0.03		0.014	0.014	0	1.92
7/30/2006	0	0	0	0.026		0.013	0.0353	0	1.7662
7/31/2006	0	0	0	0.021		0.012	0.0447	0	2.0178
8/1/2006	0	0	0	0.018		0.013	0.0426	0	2.0695
8/2/2006	0	0	0	0.022		0.013	0.0548	0	1.9965
8/3/2006	1	0.3	2.4	0.024		0.028	0.0646	0	2.0756
8/4/2006	0	0	0	0.033		0.042	0.0889	0	2.2782
8/5/2006	0	0	0	0.029		0.065	0.3127	0.025	4.3297
8/6/2006	0	0	3.9	0.027		0.034	0.2139	0	2.9008
8/7/2006	0	0	0	0.027		0.023	0.1081	0	2.018
8/8/2006	3	2.3	2.3	0.05		0.06	0.0778	0.344	2.9981
8/9/2006	0	0	0	0.131		0.047	0.0726	0.122	2.5824
8/10/2006	0	0	0	0.043		0.023	0.0538	0	1.8941
8/11/2006	0	0	0	0.038		0.022	0.0535	0	1.7922
8/12/2006	3.9	8	4.4	0.034		0.026	0.0744	0.004	1.9468
8/13/2006	0	0	0	0.033		0.038	0.1681	0.009	2.5138
8/14/2006	3.6	2.2	9	0.035		0.024	0.0941	0	1.8704
8/15/2006	27.3	33.1	30.9	0.882		0.091	0.4428	0.847	5.7862
8/16/2006	0	0	0	0.168		0.059	0.3937	0.449	3.0398
8/17/2006	0.4	0	0.9	0.07		0.025	0.1285	0.017	2.5138

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8/18/2006	0	0	0	0.052		0.024	0.1088	0	1.89
8/19/2006	0	0	0	0.035		0.022	0.104	0	1.6718
8/20/2006	0	0	0	0.033		0.019	0.1003	0	1.7913
8/21/2006	0	0	0	0.027		0.019	0.1017	0	1.9091
8/22/2006	0	0	0	0.028		0.018	0.0945	0	1.8856
8/23/2006	1	0.3	0.6	0.029		0.018	0.0932	0	1.9317
8/24/2006	3.5	7.1	0	0.032		0.025	0.1578	0	1.9519
8/25/2006	0	0	0	0.033		0.03	0.2097	0.003	2.9086
8/26/2006		0	0	0.036		0.022	0.1157	0	2.0521
8/27/2006	0	0	0	0.034		0.022	0.1197	0	1.9237
8/28/2006	0	0	0	0.033		0.021	0.1168	0	2.0731
8/29/2006		0	0	0.033		0.021	0.1084	0	2.127
8/30/2006	0	0	0	0.033		0.021	0.1195	0	2.116
8/31/2006	0	0	0	0.033		0.02	0.1184	0	2.1228
9/1/2006	0	0	0	0.034		0.019	0.0935	0	2.1499
9/2/2006		0	0	0.027		0.019	0.1164	0	2.0566
9/3/2006	0	0	0	0.027		0.019	0.1299	0	1.9325
9/4/2006	0	0	0	0.025		0.017	0.1183	0	2.0942
9/5/2006	0	0	0	0.02		0.016	0.1085	0	2.1977
9/6/2006	0	0	0	0.022		0.015	0.12	0	2.2463
9/7/2006	0	0	0	0.026		0.015	0.2048	0	2.2064
9/8/2006	0	0	0	0.035		0.015	0.2078	0	2.3428
9/9/2006	0	0	0	0.048		0.015	0.2059	0	2.319
9/10/2006	0	0	0	0.046		0.015	0.1769	0	2.1437
9/11/2006	0.3	1.6	0	0.038		0.015	0.1409	0	2.0431
9/12/2006	95.4	62.5	121.9	0.038		0.024	0.2533	0.015	3.9617
9/13/2006	28.2	15.5	29.3	4.339		0.492	15.6056	8.62	82.5285
9/14/2006	18.5	19.2	46.8	2.282		0.297	1.631	3.004	23.5818
9/15/2006	0	0	0.1	1.908		0.273	1.7385	4.099	20.5512
9/16/2006		0	0	1.214		0.184	1.1587	1.712	12.4483
9/17/2006	0	0	0	0.433		0.156	0.6587	0.524	6.5914
9/18/2006	0	0	0	0.213		0.142	0.5177	0.286	5.2912
9/19/2006	0	0	0	0.13		0.132	0.4461	0.18	4.7987
9/20/2006	0		0.5	0.087		0.128	0.3922	0.145	4.5153
9/21/2006	0	0	0	0.077		0.124	0.3622	0.113	4.138
9/22/2006	0.9	2	2.9	0.072		0.117	0.3477	0.108	4.0511
9/23/2006	10.8	12	12.5	0.198		0.142	0.4989	0.348	7.7167
9/24/2006	0	0	0	0.172		0.135	0.5941	0.197	6.0588
9/25/2006	0	0	0	0.102		0.121	0.3612	0.106	4.1826
9/26/2006	0	0	0	0.085		0.115	0.3263	0.097	3.8863
9/27/2006	0	0	0	0.078		0.105	0.3289	0.09	3.7589
9/28/2006	0	0	0	0.077		0.101	0.3242	0.079	3.6588
9/29/2006		0	0	0.078		0.093	0.3208	0.064	3.6019
9/30/2006	0	0	0	0.075		0.09	0.2996	0.055	3.3492
10/1/2006	0	0	0	0.068		0.078	0.2726	0.051	3.0334
10/2/2006		0	0	0.071		0.068	0.2446	0.047	3.0681
10/3/2006	0	0	0	0.071		0.063	0.3009	0.043	3.198
10/4/2006	0.4	1.5	0.4	0.07		0.074	0.4376	0.04	3.5204
10/5/2006	0	0	0	0.112		0.084	0.434	0.057	3.7491
10/6/2006	0	0	0	0.072		0.092	0.3352	0.047	3.4831
10/7/2006		0	0.6	0.068		0.089	0.3072	0.044	3.2457
10/8/2006			0	0.069		0.087	0.3033	0.046	3.1073
10/9/2006	0.2		0	0.066		0.083	0.316	0.049	3.322

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10/10/2006	0	0	0	0.066		0.08	0.3056	0.045	3.4237
10/11/2006	14.5	7.5	39.1	0.113		0.187	0.4208	0.502	7.7487
10/12/2006	11.5	16.4	6.3	0.254		0.201	0.8405	0.315	10.1473
10/13/2006	0	0	0	0.142		0.146	0.4138	0.14	5.3677
10/14/2006	0	0	0	0.102		0.133	0.3297	0.064	3.7207
10/15/2006	0	0	0	0.089		0.119	0.3112	0.053	3.2632
10/16/2006	0.5	0	0	0.085		0.107	0.2919	0.045	3.4492
10/17/2006		0	0.4	0.085		0.102	0.3034	0.042	3.4343
10/18/2006	10.6	8.3	20.1	1.467		0.247	0.8169	1.223	12.0174
10/19/2006	0	0	0.5	0.62		0.232	1.0985	1.114	11.9983
10/20/2006	0.1	0	0	0.22		0.18	0.6949	0.416	6.6255
10/21/2006	0	0	0	0.166		0.168	0.4215	0.193	5.0704
10/22/2006	0	0	0	0.136		0.155	0.3733	0.126	4.4655
10/23/2006	0.1	0.1	0.3	0.117		0.146	0.5241	0.096	4.4862
10/24/2006	0	0	0	0.109		0.139	0.6232	0.071	4.5734
10/25/2006	0	0	0	0.097		0.134	0.6222	0.059	4.4404
10/26/2006	0	0	0	0.095		0.127	0.6072	0.055	4.3438
10/27/2006	0	0	0	0.085		0.117	0.5204	0.052	4.239
10/28/2006	0	0	0	0.085		0.109	0.5117	0.051	3.9854
10/29/2006	0	0	0	0.085		0.098	0.5018	0.043	3.664
10/30/2006	0	0	0	0.085		0.094	0.484	0.044	3.8638
10/31/2006	0	0	0	0.087		0.092	0.4393	0.041	3.8734
11/1/2006		0	0	0.085		0.09	0.3243	0.041	3.5036
11/2/2006	0	0	0	0.09		0.09	0.3478	0.038	3.5222
11/3/2006	0	0	0	0.09		0.089	0.358	0.038	3.5859
11/4/2006	0	0	0	0.092		0.089	0.3746	0.037	3.4221
11/5/2006	0	0	0	0.092		0.09	0.3579	0.037	3.2765
11/6/2006	0	0	0	0.093		0.089	0.3267	0.037	3.425
11/7/2006	0.1	0.1	0	0.096		0.089	0.3923	0.037	3.5566
11/8/2006	0	0	0	0.1		0.09	0.3642	0.037	3.5005
11/9/2006	0	0	0	0.097		0.089	0.394	0.035	3.5064
11/10/2006	0	0	0	0.098		0.088	0.3649	0.025	3.5031
11/11/2006	0	0	0	0.099		0.089	0.3468	0.024	3.3529
11/12/2006	0	0	0	0.094		0.09	0.3847	0.026	3.1992
11/13/2006	0	0	0	0.091		0.087	0.3894	0.027	3.3629
11/14/2006	0	0	0	0.085		0.084	0.3297	0.027	3.3456
11/15/2006	0	0	0	0.085		0.083	0.3727	0.038	3.4472
11/16/2006	0.3	0.1		0.085		0.083	0.3893	0.033	3.3937
11/17/2006	1.1	1.2		0.086		0.086	0.3432	0.028	3.5273
11/18/2006	0	0		0.09		0.09	0.3009	0.026	3.3
11/19/2006	0	0		0.086		0.084	0.2943	0.025	3.0358
11/20/2006	0	0		0.085		0.077	0.3322	0.024	3.1204
11/21/2006	0	0		0.083		0.077	0.3803	0.025	3.2283
11/22/2006		0		0.082		0.08	0.3697	0.025	3.2729
11/23/2006	0	0	0	0.08		0.076	0.3179	0.024	3.2219
11/24/2006		0	0	0.08		0.075	0.3457	0.024	3.1219
11/25/2006	0	0	0	0.08		0.079	0.3586	0.024	3.0093
11/26/2006	0	1.9	0	0.067		0.082	0.3944	0.024	2.8471
11/27/2006	0	0	0	0.078		0.079	0.4111	0.024	3.0661
11/28/2006	0	0	0	0.088		0.076	0.3791	0.026	3.1918
11/29/2006	0	0	0	0.091		0.075	0.3568	0.024	3.1553
11/30/2006	0	0	0	0.094		0.076	0.3312	0.025	3.0994
12/1/2006	0.7	0	0.2	0.092		0.076	0.3527	0.025	3.17

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12/2/2006	0	1.7	0	0.095		0.077	0.2929	0.025	2.9742
12/3/2006	0	0	0	0.093		0.074	0.3111	0.025	2.7771
12/4/2006	0	0	0	0.093		0.072	0.3388	0.024	2.984
12/5/2006	4.4	15.2	2.8	0.097		0.076	0.4198	0.021	3.1722
12/6/2006	18		11.5	0.163		0.146	0.608	1.074	9.8138
12/7/2006	0.1	0	0.1	0.117		0.115	0.4038	0.098	3.5614
12/8/2006	0.7	0.8	0.8	0.11		0.107	0.3367	0.054	3.2192
12/9/2006	0	0	0	0.1		0.098	0.3022	0.044	2.8979
12/10/2006	0	0	0	0.093		0.089	0.2711	0.037	2.7617
12/11/2006	0	0	0	0.092		0.088	0.3197	0.031	3.1096
12/12/2006	0	0	0	0.092		0.086	0.341	0.026	3.2584
12/13/2006	0	0	0	0.092		0.082	0.3189	0.026	3.2678
12/14/2006	0.4	0.5	0	0.092		0.091	0.3064	0.024	3.2369
12/15/2006	6.7	6.8	6.5	0.104		0.111	0.5106	0.205	6.394
12/16/2006	0	0	0	0.1		0.096	0.3578	0.05	3.4652
12/17/2006	0	0	0	0.095		0.085	0.2962	0.04	2.9785
12/18/2006	0	0.1	0	0.093		0.077	0.3125	0.038	3.1145
12/19/2006	0	0	0	0.094		0.08	0.3456	0.036	3.2761
12/20/2006	0		0	0.097		0.076	0.3408	0.031	3.2417
12/21/2006	0	0	0	0.097		0.076	0.3124	0.029	3.1839
12/22/2006	6.9	4.4	5.6	0.097		0.078	0.2954	0.041	3.9371
12/23/2006	0	0	0	0.097		0.075	0.351	0.049	3.8088
12/24/2006	0	0	0	0.093		0.074	0.2889	0.037	2.8759
12/25/2006	0	0	0	0.092		0.075	0.2714	0.038	2.7347
12/26/2006	0	0	0	0.092		0.075	0.3097	0.034	2.7367
12/27/2006	0	0	0	0.092		0.075	0.2887	0.027	2.8207
12/28/2006	0	0	0	0.092		0.075	0.3066	0.027	2.8841
12/29/2006	0	0	0	0.092		0.074	0.2865	0.027	2.8687
12/30/2006	0		0	0.09		0.074	0.2483	0.027	2.7665
12/31/2006	0	1.9	0	0.088		0.074	0.2647	0.025	2.7187
1/1/2007	0	0	0	0.085		0.074	0.2842	0.027	2.7242
1/2/2007	0	0	0	0.084		0.074	0.313	0.026	2.9164
1/3/2007	0	0	0	0.085		0.075	0.3362	0.026	3.0518
1/4/2007	0	0	0	0.085		0.075	0.2998	0.033	3.0528
1/5/2007	0	0	0	0.083		0.075	0.3265	0.03	2.9998
1/6/2007	0	0	0	0.082		0.076	0.3008	0.029	2.7668
1/7/2007	0	0	0	0.079		0.076	0.2936	0.027	2.711
1/8/2007	0	0	0	0.082		0.077	0.2976	0.032	2.9192
1/9/2007	0	0	0	0.082		0.082	0.3258	0.036	3.1107
1/10/2007	0	0	0	0.084		0.083	0.3267	0.029	3.1472
1/11/2007	0	0	0	0.085		0.082	0.2998	0.031	3.1354
1/12/2007	0	0	0	0.084		0.081	0.2717	0.025	3.0461
1/13/2007	0	0	0	0.081		0.077	0.2525	0.023	2.8311
1/14/2007	0	0	0	0.08		0.078	0.2686	0.023	2.7091
1/15/2007	0	0	0	0.078		0.075	0.2813	0.022	2.7883
1/16/2007		0	0.2	0.083		0.073	0.3324	0.022	3.0284
1/17/2007	0	0	0	0.083		0.074	0.2537	0.022	2.9242
1/18/2007	0	0	0	0.082		0.076	0.2807	0.022	2.9078
1/19/2007	0	0	0	0.078		0.076	0.2928	0.022	2.8545
1/20/2007	0	0	0	0.08		0.077	0.2983	0.021	2.8345
1/21/2007		0	0	0.078		0.082	0.3033	0.021	2.6935
1/22/2007	5.4	0	3.1	0.08		0.087	0.295989583	0.038	3.432732639
1/23/2007	0	0	0	0.107		0.112	0.2636	0.066	3.5178

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1/24/2007	0	0	0	0.083		0.101	0.2336	0.027	2.97
1/25/2007	0	0	0	0.078		0.091	0.2209	0.028	2.9439
1/26/2007	0	0	0	0.077		0.087	0.229	0.027	2.9189
1/27/2007	0	0	0	0.075		0.087	0.2309	0.027	2.8116
1/28/2007	0	0	0	0.075		0.087	0.2257	0.027	2.6507
1/29/2007	0	0	0	0.072		0.087	0.2262	0.025	2.7989
1/30/2007	0	0	0	0.074		0.087	0.2589	0.025	2.8896
1/31/2007	0.8	1.4	0.3	0.072		0.082	0.2955	0.024	2.8878
2/1/2007	0	0	0	0.075		0.087	0.3555	0.025	3.0423
2/2/2007	0	0	0	0.074		0.088	0.3087	0.024	2.8671
2/3/2007	0	0	0	0.072		0.082	0.3105	0.023	2.7339
2/4/2007	0	0	0	0.072		0.082	0.287	0.022	2.5645
2/5/2007	0.2	0	0.5	0.072		0.077	0.2929	0.021	2.9649
2/6/2007	0	0	0	0.072		0.084	0.3511	0.021	2.9173
2/7/2007	0	0	0	0.074		0.088	0.3499	0.021	2.8909
2/8/2007	6.7	3.3	7.4	0.076		0.111	0.4301	0.116	5.5561
2/9/2007	0.2	0	0	0.138		0.11	0.4116	0.08	3.634
2/10/2007	0	0	0	0.085		0.105	0.2834	0.037	2.919
2/11/2007	0	0	0	0.082		0.1	0.2453	0.029	2.6609
2/12/2007		0	0	0.078		0.098	0.2572	0.024	2.776
2/13/2007	0	0	0	0.079		0.097	0.2679	0.023	2.8034
2/14/2007	0	0	0	0.078		0.099	0.2806	0.033	2.8786
2/15/2007	0	0	0	0.079		0.097	0.2539	0.037	2.8165
2/16/2007	0	0	0	0.078		0.1	0.2468	0.035	2.7767
2/17/2007	28	11.2	15.4	0.089		0.146	0.5238	0.443	8.2051
2/18/2007	0.2	0.1	0.2	0.113		0.139	0.5411	0.166	4.3091
2/19/2007	0	0	0	0.088		0.122	0.2986	0.069	3.1613
2/20/2007	0	0	0	0.083		0.109	0.2834	0.056	2.8957
2/21/2007		0	0	0.087		0.117	0.5485	0.098	3.1877
2/22/2007	0	0	0	0.086		0.117	0.4886	0.071	3.3681
2/23/2007	0	0	0	0.081		0.121	0.432	0.05	2.9324
2/24/2007	0	0	0	0.08		0.111	0.3677	0.041	2.7534
2/25/2007		0	0	0.078		0.112	0.3948	0.038	2.4795
2/26/2007	0	0	0	0.083		0.104	0.318	0.038	2.6147
2/27/2007	0	0	0	0.078		0.092	0.2664	0.036	2.7096
2/28/2007	0	0	0	0.073		0.073	0.2946	0.034	2.8314
3/1/2007	0	0	0	0.069		0.07	0.3881	0.026	2.827
3/2/2007	0	0	0	0.068		0.068	0.4168	0.009	2.8068
3/3/2007	0	31	0	0.069		0.067	0.4999	0	2.6731
3/4/2007	0	0	0	0.069		0.067	0.4598	0	2.4349
3/5/2007	0	0	0	0.069		0.067	0.4915	0	2.5741
3/6/2007	0	0	0	0.073		0.066	0.5246	0	2.6763
3/7/2007	8.4	9.4	11.3	0.088		0.101	0.675	0.187	6.1698
3/8/2007	0	0	0.1	0.166		0.094	0.7586	0.089	4.2927
3/9/2007	0	0	0	0.081		0.088	0.6622	0.015	3.0619
3/10/2007	0	0	0	0.075		0.072	0.63	0.005	2.721
3/11/2007	0	0	0	0.072		0.072	0.6465	0.001	2.407
3/12/2007	0	0	0	0.072		0.073	0.6695	0.001	2.5582
3/13/2007	0	0	0	0.073		0.069	0.6422	0	2.6278
3/14/2007	0	0	0	0.078		0.068	0.6767	0	2.7722
3/15/2007	0	0	0	0.078		0.068	0.5895	0	2.7219
3/16/2007	0.7	0	0.6	0.073		0.066	0.4455	0	2.8072
3/17/2007	0	0	0.1	0.067		0.066	0.4586	0	2.6656

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3/18/2007	0	0.1	0	0.07		0.065	0.4104	0	2.3959
3/19/2007		0	0.4	0.071		0.065	0.4251	0	2.6066
3/20/2007	0	0	0	0.072		0.065	0.3717	0	2.7494
3/21/2007	0	0.1	0	0.074		0.063	0.3601	0	2.789
3/22/2007	0	0	0	0.075		0.062	0.3875	0	2.7023
3/23/2007	0.1	2.7	0	0.071		0.062	0.4233	0	2.5993
3/24/2007	0.3	0.8	0.2	0.07		0.061	0.3903	0	2.5219
3/25/2007	0	0	0	0.069		0.061	0.4337	0	2.3829
3/26/2007	0.1	0	0	0.069		0.061	0.4076	0	2.5446
3/27/2007	0.2	0	0	0.072		0.06	0.4407	0	2.7529
3/28/2007	4.8	0.3	0.7	0.076		0.06	0.433	0	3.0135
3/29/2007	0.8	0.2	0.2	0.078		0.059	0.4414	0	2.8424
3/30/2007	2	0	2.2	0.077		0.058	0.4116	0	2.7742
3/31/2007	1.9	0	2.1	0.077		0.075	0.4185	0	3.4341
4/1/2007	0.9	0.5	0.7	0.072		0.076	0.4612	0	2.7526
4/2/2007	74	11.8		0.68		0.177	0.9519	0.645	9.8837
4/3/2007	9.2	6		5.117		0.546	4.4217	5.42	28.2716
4/4/2007	3.1			1.64		0.368	1.4386	1.012	15.3909
4/5/2007	5.8			1.382		0.374	1.2191	0.789	13.7212
4/6/2007	0	0		0.859		0.263	0.8173	0.225	7.2666
4/7/2007		0		0.478		0.225	0.5657	0.098	5.1892
4/8/2007	0	0		0.294		0.204	0.497	0.054	4.4061
4/9/2007	3	3.3		0.194		0.191	0.4491	0.043	4.1058
4/10/2007	1	0.3		0.149		0.186	0.6756	0.059	5.43
4/11/2007	0	0		0.128		0.18	0.5829	0.043	4.325
4/12/2007	5.1	0.9		0.12		0.176	0.5492	0.061	4.969
4/13/2007	12	3.5		0.172		0.193	0.6848	0.137	5.8836
4/14/2007	1.5	1.2		0.889		0.197	0.8525	0.195	7.1918
4/15/2007	0	0		0.83		0.188	0.6577	0.04	5.0818
4/16/2007	0	0		0.429		0.188	0.607	0.03	4.5911
4/17/2007	0	0		0.693		0.185	0.5891	0.021	4.2619
4/18/2007	0	0		0.516		0.205	0.5474	0.019	4.9889
4/19/2007	0	0		0.297		0.186	0.5655	0.019	4.2274
4/20/2007	0	0		0.196		0.174	0.514	0.015	3.9912
4/21/2007	0	0		0.165		0.163	0.4913	0.015	3.6453
4/22/2007	0	0	0	0.144		0.152	0.4651	0.001	3.2767
4/23/2007	0	0	0	0.128		0.136	0.4724	0.016	3.3286
4/24/2007	0		0	0.114		0.128	0.4977	0.018	3.5676
4/25/2007	0	0	0	0.098		0.119	0.4989	0.017	3.2721
4/26/2007	0	0	0	0.091		0.121	0.5292	0.003	3.132
4/27/2007		0	0	0.09		0.132	0.5318	0.001	3.1283
4/28/2007	0.2	0	0	0.093		0.128	0.5384	0.004	3.033
4/29/2007	1.1	1.2	0	0.21		0.15	0.77	0.264	4.0388
4/30/2007	2.7	1.2	0	0.142		0.138	0.669	0.084	3.783
5/1/2007	12.9	3.9		0.907		0.372	1.3214	1.371	15.7063
5/2/2007	0	0		0.421		0.234	1.1336	0.229	7.7125
5/3/2007	4.6	1.7		0.215		0.21	0.8492	0.133	6.3313
5/4/2007	0.1	0.2		0.177		0.188	0.8131	0.086	5.1153
5/5/2007	2.9	0.8		0.215		0.185	0.6553	0.1	7.4894
5/6/2007	0.9	0		0.181		0.178	0.5599	0.061	4.7556
5/7/2007	0	4.4		0.144		0.159	0.5736	0.033	4.1766
5/8/2007	0	0		0.133		0.143	0.5664	0.02	4.0346
5/9/2007	0	2.5		0.118		0.132	0.5257	0.011	3.7757

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5/10/2007	0	3.9		0.105		0.122	0.5081	0.003	3.5954
5/11/2007	0	0	0	0.094	0.044	0.115	0.4924	0	3.4507
5/12/2007	0	0	0	0.085	0.0434	0.109	0.4701	0	3.2391
5/13/2007	5.5	1.7	5.9	0.078	0.0517	0.109	0.4486	0	2.921
5/14/2007	2	1.3	1.4	0.17	0.0571	0.15	0.9586	0.154	6.8855
5/15/2007	0	0	0	0.106	0.0491	0.122	0.631	0.031	4.0301
5/16/2007	0	0		0.084	0.0482	0.111	0.5498	0.014	3.6237
5/17/2007	0			0.078	0.0514	0.106	0.5046	0.002	3.5264
5/18/2007	0	0	0	0.073	0.0672	0.1	0.455	0	3.4366
5/19/2007	0.7	0	0.4	0.071	0.055	0.088	0.4672	0	3.2204
5/20/2007	4.8	0.1	4.1	0.068	0.0383	0.091	0.4023	0	2.986
5/21/2007	0	0.6	0.9	0.082	0.0257	0.116	0.4539	0.071	4.8386
5/22/2007	0.2	0	0	0.069	0.0132	0.089	0.454	0.013	3.3599
5/23/2007	0.1	0	0.2	0.058	0.0192	0.097	0.4885	0	3.3469
5/24/2007	0	0		0.06	0.0283	0.097	0.4579	0	3.322
5/25/2007	0	0	0	0.057	0.0243	0.09	0.4883	0	3.3122
5/26/2007	0.2	0	3.2	0.073	0.0248	0.132	0.4916	0.086	3.8682
5/27/2007	1.3	2	0.3	0.266	0.0348	0.161	0.6241	0.118	5.1297
5/28/2007	0	0	0	0.077	0.0145	0.106	0.4723	0.002	3.3752
5/29/2007	0	0	0	0.069	0.0108	0.091	0.4649	0	3.1379
5/30/2007	0.1	0	0	0.066	0.0098	0.077	0.421	0	2.927
5/31/2007	0	0	0	0.061	0.012	0.079	0.4628	0	2.9581
6/1/2007	0	0	0	0.062	0.0141	0.071	0.4382	0	2.7334
6/2/2007	0	0	0	0.064	0.0086	0.06	0.4376	0	2.7768
6/3/2007	0	0	0.3	0.065	0.0076	0.057	0.5065	0	2.5277
6/4/2007	0	0		0.067	0.0073	0.058	0.5314	0	2.6611
6/5/2007	0	0	0.1	0.067	0.0069	0.053	0.5511	0	2.8127
6/6/2007	0	0	0.1	0.156	0.0064	0.069	0.4541	0	2.859
6/7/2007	0	0	0	0.085	0.0053	0.075	0.4433	0	2.8769
6/8/2007	0	0	0.1	0.075	0.0056	0.061	0.4934	0	2.8402
6/9/2007	0	0	0	0.07	0.0059	0.053	0.549	0	2.6987
6/10/2007	0	0	0	0.07	0.0063	0.048	0.5031	0	2.4385
6/11/2007	0	0	0	0.069	0.0065	0.048	0.3452	0	2.5929
6/12/2007	0	0	0	0.069	0.0061	0.048	0.4174	0	2.6451
6/13/2007	0	0		0.069	0.0233	0.048	0.3281	0	2.6076
6/14/2007	0	0	0.3	0.084	0.0404	0.047	0.3557	0	2.4963
6/15/2007	0	0	0	0.11	0.0331	0.047	0.3581	0	2.491
6/16/2007		0	0	0.062	0.0322	0.048	0.2785	0	2.321
6/17/2007	0	0	0.3	0.052	0.0313	0.047	0.221	0	2.1096
6/18/2007		0.1	0	0.048	0.0349	0.047	0.2907	0	2.358
6/19/2007	0	0	0	0.049	0.0376	0.046	0.4814	0	2.5357
6/20/2007	0	0	0	0.05	0.0293	0.046	0.2822	0	2.5362
6/21/2007	0	0	0	0.05	0.0205	0.046	0.1529	0	2.5119
6/22/2007	0	0	0	0.048	0.0181	0.046	0.1227	0	2.4355
6/23/2007	0	0	0	0.047	0.0158	0.042	0.1556	0	2.2812
6/24/2007	0	0	0	0.046	0.0192	0.031	0.1298	0	1.9782
6/25/2007	0	0	0	0.044	0.0232	0.022	0.0948	0	2.3615
6/26/2007	0	0	0	0.044	0.0186	0.015	0.1253	0	2.3883
6/27/2007		0	0	0.044	0.0178	0.011	0.0914	0	2.3089
6/28/2007	0	0	0	0.049	0.0163	0.008	0.1416	0	2.3154
6/29/2007	0	0	0	0.048	0.023	0.005	0.1214	0	2.3142
6/30/2007	0	0	0	0.048	0.019	0.003	0.2537	0	2.2442
7/1/2007	0.3	0.2	0.2	0.045	0.0157	0.002	0.2574	0	2.1315

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
7/2/2007	0	0	0	0.047	0.0183	0.001	0.2205	0	2.2335
7/3/2007	0	0	0	0.044	0.022854167	0	0.084010417	0	2.342375
7/4/2007	0.4	0	0	0.045	0.0193	0.013	0.0749	0	2.4457
7/5/2007	0	0	0	0.044	0.015	0.02	0.0507	0	2.3618
7/6/2007	0	0	0	0.044	0.0224	0.019	0.0849	0	2.3738
7/7/2007	0	0	0	0.044	0.0279	0.017	0.0871	0	2.2242
7/8/2007	0	0	0	0.037	0.0208	0.017	0.0776	0	1.9664
7/9/2007	0	0	0	0.034	0.02	0.017	0.0767	0	2.1149
7/10/2007	0	0	0	0.032	0.039350694	0.018	0.076451389	0	2.217736111
7/11/2007	0	0	0	0.033	0.0553	0.019	0.0559	0	2.2078
7/12/2007	0	0	0	0.056	0.0524	0.019	0.0825	0	2.2101
7/13/2007	0	0	0	0.04	0.0562	0.019	0.1318	0	2.2635
7/14/2007	0	0	0	0.035	0.0578	0.018	0.084	0	2.0746
7/15/2007	0	0	0	0.031	0.0412	0.017	0.0454	0	1.8842
7/16/2007	0	0	0	0.027	0.028	0.017	0.0338	0	2.0974
7/17/2007	0	0	0	0.027	0.0268	0.016	0.0556	0	2.1204
7/18/2007	0	0	0	0.027	0.0279	0.016	0.0478	0	2.1774
7/19/2007	0	0	0	0.027	0.0236	0.016	0.0275	0	2.1583
7/20/2007		0	0	0.027	0.0278	0.016	0.0713	0	2.2561
7/21/2007		0	0	0.031	0.0221	0.016	0.0438	0	2.1829
7/22/2007	0	22.2	0	0.03	0.0091	0.017	0.069	0	1.9318
7/23/2007	0		0	0.027	0.0153	0.016	0.0793	0	2.0307
7/24/2007	0	0	0	0.027	0.0277	0.015	0.0437	0	2.0404
7/25/2007	0	0	0	0.027	0.025	0.016	0.0494	0	2.0404
7/26/2007	0	0	0	0.03	0.0211	0.015	0.0416	0	2.1266
7/27/2007	0	0	0	0.027		0.015	0.0862	0	2.0408
7/28/2007	0	0	0	0.027		0.015	0.0249	0	1.8524
7/29/2007	0	0	0	0.027		0.015	0.0646	0	1.7273
7/30/2007	0	0	0	0.024		0.015	0.0577	0	1.9078
7/31/2007	0	0	0	0.022		0.015	0.0425	0	1.9754
8/1/2007	0	0	0	0.023		0.015	0.0297	0	1.9332
8/2/2007	0	0	0	0.02		0.015	0.0269	0	1.8903
8/3/2007	0	0	0	0.02		0.015	0.0403	0	1.8421
8/4/2007	0	0	0	0.023		0.015	0.0251	0	1.766
8/5/2007	0	0	0	0.02		0.015	0.0322	0	1.3286
8/6/2007	2.3	0.3	3	0.04		0.044	0.4853	0.002	4.2198
8/7/2007	29.9	13	6.3	0.115		0.049	0.505597222	0	3.484395833
8/8/2007	1	3		0.099		0.143	0.891923611	0.961	12.10804514
8/9/2007	0	0		0.049		0.05	0.3497	0.002	2.902
8/10/2007	0	0	0	0.033		0.049	0.2441	0	2.2937
8/11/2007	0	0		0.033		0.049	0.1973	0	1.6289
8/12/2007	16.8	19.2		0.033		0.133	0.46	1.489	10.3905
8/13/2007	0	0		0.052		0.102	0.5711	0.454	10.978
8/14/2007	0	0		0.037		0.049	0.2543	0	2.8566
8/15/2007	0	0		0.033		0.047	0.1996	0	2.3545
8/16/2007	9.9	2.1		0.033		0.048	0.1878	0	2.4627
8/17/2007	0.2	0		0.027		0.048	0.1891	0	2.1916
8/18/2007	9.5	9.7		0.027		0.048	0.1776	0	2.0098
8/19/2007	7.5	7.8		0.654		0.179	0.6569	0.208	8.6103
8/20/2007		0		0.109		0.089	0.3413	0.012	3.7937
8/21/2007	8.9	1.3		0.072		0.08	0.2529	0.014	3.5389
8/22/2007	4	2.9		0.216		0.122	0.6651	0.297	6.9533
8/23/2007	0	0		0.121		0.073	0.3366	0.007	3.3906

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
8/24/2007		0.3		0.076		0.065	0.2718	0	2.7607
8/25/2007		0		0.07		0.048	0.2475	0	2.5114
8/26/2007	0	0		0.061		0.046	0.2369	0	2.2999
8/27/2007	0	0		0.054		0.045	0.2436	0	2.3973
8/28/2007	0	0		0.051		0.044	0.2559	0	2.4538
8/29/2007	0	0.1		0.048		0.044	0.2291	0	2.4428
8/30/2007	1.5	4.7		0.046		0.045	0.2463	0	2.4215
8/31/2007	0	0		0.044		0.045	0.2472	0	3.8801
9/1/2007	0	0		0.044		0.046	0.2312	0	2.3726
9/2/2007	0	0		0.044		0.046	0.3368	0	2.2222
9/3/2007	0	0		0.044		0.045	0.3589	0	2.3865
9/4/2007		0		0.05		0.045	0.3099	0	2.4833
9/5/2007	0	0		0.046		0.045	0.2154	0	2.5245
9/6/2007	0	0		0.043		0.045	0.2315	0	2.5385
9/7/2007	0	0		0.037		0.045	0.2026	0	2.5753
9/8/2007	0	0		0.036		0.044	0.1908	0	2.3454
9/9/2007	0	0		0.033		0.044	0.2145	0	2.1157
9/10/2007	0	0		0.033		0.043	0.2247	0	2.2268
9/11/2007	0	0		0.03		0.042	0.1543	0	2.2149
9/12/2007		0		0.03		0.041	0.1851	0	2.3969
9/13/2007	0	0		0.031		0.041	0.2204	0	2.437
9/14/2007	0	0		0.033		0.04	0.2515	0	2.5002
9/15/2007	0	0		0.033		0.039	0.2117	0	2.2588
9/16/2007	0	0		0.033		0.038	0.1762	0	2.0598
9/17/2007		0		0.03		0.037	0.1658	0	2.3229
9/18/2007	0	0.1		0.129		0.065	0.2015	0	2.7079
9/19/2007	0	0.1		0.066		0.055	0.273	0	2.8032
9/20/2007	0	0		0.047		0.054	0.3105	0	2.6644
9/21/2007		0		0.044		0.052	0.3399	0	2.6411
9/22/2007	3.4	0		0.042		0.051	0.6232	0.002	3.5873
9/23/2007	0	0		0.045		0.05	0.5059	0.002	2.6383
9/24/2007	0	0		0.039		0.049	0.3939	0	2.4577
9/25/2007	0.1	1		0.038		0.05	0.3765	0	2.6401
9/26/2007	0			0.039		0.049	0.3515	0	2.651
9/27/2007	0	0		0.039		0.048	0.3127	0	2.522
9/28/2007	0	0		0.037		0.047	0.3119	0	2.5263
9/29/2007	6.3	4.5		0.045		0.044	0.2633	0	2.6478
9/30/2007	0	0		0.042		0.041	0.2539	0	2.2659
10/1/2007	0	0		0.035		0.038	0.2409	0	2.4304
10/2/2007		0		0.033		0.036	0.1983	0	2.533
10/3/2007	2.3	0		0.037		0.037	0.2722	0	2.5468
10/4/2007	14.9	12.4		0.16		0.068	0.5347	0.016	6.1666
10/5/2007	0	0		0.576		0.093	0.5597	0.499	7.7068
10/6/2007	0	0		0.09		0.071	0.3662	0.002	3.0868
10/7/2007	0	0		0.063		0.058	0.2874	0	2.4902
10/8/2007	23.1	7.2		0.084		0.068	0.7461	0.245	6.5926
10/9/2007	0.2	0		0.125		0.063	0.4812	0.036	4.5161
10/10/2007	21.5	29.7		0.271		0.143	0.8684	1.27	11.1349
10/11/2007	0	0		0.524		0.122	0.7642	0.372	9.1795
10/12/2007	0	0		0.1		0.098	0.309	0.005	3.6146
10/13/2007	0	0		0.081		0.085	0.3461	0	2.9974
10/14/2007	0	0		0.074		0.064	0.2882	0	2.7348
10/15/2007	0	0		0.073		0.06	0.288	0	2.8712

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10/16/2007	38.8	16.5		0.074		0.059	0.3017	0	2.9654
10/17/2007	0			0.079		0.158	0.9686	1.126	15.8464
10/18/2007	0	0		0.072		0.061	0.3415	0.009	4.0594
10/19/2007	0	0		0.072		0.057	0.2932	0	3.3802
10/20/2007	0	0		0.072		0.056	0.3016	0	3.0203
10/21/2007	0	0		0.072		0.056	0.2493	0	2.7694
10/22/2007	0	0		0.077		0.057	0.2398	0	2.9873
10/23/2007	0	0		0.078		0.055	0.2359	0	3.0805
10/24/2007	0	0		0.079		0.055	0.2666	0	3.1078
10/25/2007	2.5	1		0.084		0.056	0.2489	0	3.3431
10/26/2007	54.6	41.8		0.085		0.057	0.2505	0	3.8462
10/27/2007	0	0.1		0.099		0.095	0.3622	0.187	7.6793
10/28/2007	0	99		0.095		0.058	0.26	0.001	2.9242
10/29/2007	0	0		0.094		0.057	0.2544	0	2.9043
10/30/2007	0	0		0.096		0.058	0.3133	0	3.0098
10/31/2007		0		0.1		0.058	0.3361	0	3.0345
11/1/2007	0	0	0	0.095		0.057	0.3323	0	2.8809
11/2/2007	0	0	0	0.095		0.057	0.2862	0	2.7495
11/3/2007	0		0	0.097		0.057	0.2769	0	2.6967
11/4/2007	0	0	0	0.097		0.058	0.2698	0	2.6579
11/5/2007	0	0	0	0.097		0.057	0.2762	0	2.8289
11/6/2007	0	29	0	0.097		0.056	0.4699	0	2.8617
11/7/2007	0		0	0.098		0.057	0.4768	0	3.1568
11/8/2007	0	0	0	0.097		0.057	0.3254	0	2.9896
11/9/2007	0	0	0	0.097		0.056	0.303	0	2.979
11/10/2007	0	0	0	0.098		0.056	0.2934	0	2.8734
11/11/2007	0	0	0	0.098		0.057	0.2881	0	2.6933
11/12/2007	0	0	0	0.099		0.057	0.2848	0	2.7962
11/13/2007	0	0	0	0.099		0.057	0.2794	0	2.8697
11/14/2007	0	0	0	0.101		0.057	0.2931	0	2.9441
11/15/2007	0	0	0	0.099		0.055	0.3039	0	2.9748
11/16/2007	0	0	0	0.097		0.052	0.3006	0	2.9542
11/17/2007	0	0	0	0.097		0.05	0.2963	0	2.8742
11/18/2007	0	0	0	0.095		0.047	0.2978	0	2.7482
11/19/2007	0	1.7	0	0.085		0.046	0.3301	0	2.8779
11/20/2007	1	0.8	1	0.084		0.041	0.3068	0	2.9333
11/21/2007	0	0	0	0.082		0.037	0.2943	0	3.0418
11/22/2007		0	0.3	0.083		0.036	0.3021	0	2.9297
11/23/2007	0		0	0.085		0.035	0.2965	0	2.8776
11/24/2007	0	0	0	0.085		0.035	0.2935	0	2.7555
11/25/2007	0	0	0	0.085		0.034	0.2907	0	2.6336
11/26/2007	0	0	0	0.085		0.033	0.2926	0	2.7381
11/27/2007	0	0	0	0.083		0.032	0.3245	0	2.815
11/28/2007	0	0	0.1	0.074		0.032	0.4653	0	2.9044
11/29/2007	0	0	0	0.067		0.041	0.4288	0	2.8986
11/30/2007	0	0	0	0.061		0.056	0.4016	0	2.9085
12/1/2007	0	0	0	0.054		0.059	0.4009	0	2.8206
12/2/2007	0	0	0	0.054		0.057	0.413	0	2.6345
12/3/2007	0	0	0	0.054		0.051	0.5097	0	2.7204
12/4/2007	0	0	0	0.054		0.045	0.4229	0	2.8052
12/5/2007	0	0	0	0.06		0.04	0.4003	0	2.7853
12/6/2007	0	0	0	0.063		0.049	0.3978	0	2.6608
12/7/2007	0	0	0	0.061		0.049	0.3864	0	2.5779

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12/8/2007	0	0	0	0.062		0.045	0.376	0	2.5386
12/9/2007	0	0	0	0.061		0.04	0.3305	0	2.4613
12/10/2007	0	0	0	0.061		0.034	0.3225	0	2.5848
12/11/2007	0		0	0.067		0.039	0.3544	0	2.7345
12/12/2007	0	0	0.7	0.068		0.051	0.4929	0	2.9171
12/13/2007	0	0	0	0.072		0.05	0.3831	0	2.8475
12/14/2007	0	0	0	0.069		0.049	0.3745	0	2.8776
12/15/2007	0.4		0.2	0.065		0.049	0.372	0	2.8284
12/16/2007	0		0	0.065		0.049	0.3707	0	2.6813
12/17/2007	3		1.3	0.063		0.049	0.3819	0	2.9415
12/18/2007	0	0	0	0.061		0.047	0.3856	0	3.1787
12/19/2007	0	0	0	0.063		0.047	0.4388	0	2.9708
12/20/2007	4.7		1.6	0.067		0.047	0.4648	0	3.0256
12/21/2007	4.1		3.5	0.064		0.045	0.3705	0	3.7968
12/22/2007	3.5		0	0.066		0.045	0.3663	0	3.2319
12/23/2007	0		0	0.065		0.045	0.3069	0	2.6852
12/24/2007	0	0	0	0.062		0.045	0.3105	0	2.6573
12/25/2007	0	0	0	0.066		0.05	0.3917	0	2.6327
12/26/2007	0	0	0	0.067		0.058	0.3074	0	2.5145
12/27/2007	0	0	0	0.067		0.059	0.3114	0	2.5947
12/28/2007	0	0	0	0.067		0.058	0.3178	0	2.7671
12/29/2007	0	0	0	0.067		0.057	0.3138	0	2.8214
12/30/2007	0	0	0	0.067		0.056	0.3031	0	2.7235
12/31/2007	0	0	0	0.067		0.054	0.3077	0	2.7835
1/1/2008	0	0	0	0.067		0.052	0.3156	0	2.6602
1/2/2008	4.9	2.8	3.9	0.067		0.052	0.3219	0	3.3396
1/3/2008	19.7	11.7	17.3	0.24		0.116	0.6699	0.443	8.8044
1/4/2008	0	0	0	0.237		0.105	0.5018	0.134	5.0899
1/5/2008	0	0	0	0.079		0.092	0.4004	0.005	3.2231
1/6/2008	0	0	0	0.063		0.077	0.3009	0	2.734
1/7/2008	0	0	0	0.054		0.067	0.2986	0	2.7549
1/8/2008	0	0	0	0.048		0.061	0.3901	0	2.9289
1/9/2008	0.7	0	0.2	0.048		0.062	0.3281	0	2.8578
1/10/2008	0.3	0	0.1	0.048		0.06	0.3149	0	2.8561
1/11/2008	1.2	0.8	1.3	0.049		0.059	0.2764	0	2.9213
1/12/2008	0	0	0	0.064		0.066	0.2831	0	2.959
1/13/2008	0	0	0	0.06		0.066	0.2787	0	2.6776
1/14/2008		0	0	0.054		0.066	0.2792	0	2.7771
1/15/2008	0	0	0	0.051		0.064	0.2894	0	2.8334
1/16/2008		0	0	0.05		0.062	0.3414	0	2.8403
1/17/2008	0	0	0	0.048		0.058	0.3059	0	2.7867
1/18/2008	0	0	0	0.046		0.056	0.2831	0	2.7821
1/19/2008	0	0	0	0.047		0.054	0.2718	0	2.7495
1/20/2008	0	0	0	0.048		0.052	0.2581	0	2.4997
1/21/2008	0	0	0	0.048		0.043	0.2946	0	2.586713615
1/22/2008	0		0	0.046		0.04	0.3007	0	2.586713615
1/23/2008	0	9.1	0.1	0.046		0.039	0.2563	0	1.728993056
1/24/2008	0		0	0.047		0.038	0.2556	0	1.728993056
1/25/2008	0		0	0.046		0.038	0.2558	0	1.632791667
1/26/2008	0		0	0.047		0.036	0.249	0	1.656243056
1/27/2008	0		0	0.048		0.035	0.2546	0	1.728993056
1/28/2008	0		0	0.047		0.033	0.26	0	1.968590278
1/29/2008	0	2.2	0	0.047		0.032	0.3716	0	2.8883

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1/30/2008	3	1.1	0.5	0.05		0.031	0.257	0	2.8822
1/31/2008	0	0	0	0.054		0.03	0.2478	0	2.8238
2/1/2008	0	0	0	0.054		0.031	0.2612	0	2.8159
2/2/2008	3.3	5.4	0	0.057		0.031	0.2442	0	2.7538
2/3/2008	10.1	11	4.3	0.059		0.035	0.2471	0	2.9709
2/4/2008	0	0	0	0.361		0.106	0.4529	0.137	5.7072
2/5/2008	0	0	0	0.112		0.075	0.2666	0	3.3064
2/6/2008	0	0	0	0.08		0.064	0.2392	0	2.9915
2/7/2008	0	0	0	0.075		0.055	0.227	0	2.8739
2/8/2008	0	0	0	0.069		0.053	0.2198	0	2.8695
2/9/2008	0	0	0	0.071		0.053	0.2002	0	2.7645
2/10/2008	0	0	0	0.065		0.053	0.1838	0	2.5866
2/11/2008	0	0	0	0.063		0.053	0.2181	0	2.48
2/12/2008	0	0	0	0.062		0.052	0.2336	0	2.6
2/13/2008	0.6	1	0.3	0.065		0.051	0.2131	0	2.72
2/14/2008	0.7	1.1	0.6	0.067		0.053	0.2394	0	2.84
2/15/2008	0	0.1	0	0.066		0.055	0.2169	0	2.9491
2/16/2008	0	0	0	0.064		0.055	0.2197	0	2.6791
2/17/2008	4.2	2.6	3.3	0.064		0.054	0.2048	0	2.4875
2/18/2008	2.8	0.4	2.2	0.063		0.055	0.2811	0	3.8558
2/19/2008	5.5	0.8	1.6	0.089		0.055	0.2687	0	3.3334
2/20/2008	2.6	0	0.4	0.077		0.054	0.2894	0	3.8146
2/21/2008	0	0	0	0.068		0.053	0.2463	0	2.8589
2/22/2008	0	0	0	0.064		0.053	0.2278	0	2.8086
2/23/2008	0	0	0.1	0.06		0.053	0.2221	0	2.6715
2/24/2008	6.7	4.9	3.8	0.058		0.053	0.2114	0	2.4519
2/25/2008		0	0	0.073		0.055	0.2467	0	3.6357
2/26/2008	0	0	0	0.08		0.053	0.2381	0	2.7414
2/27/2008	0	0	0	0.065		0.053	0.2415	0	2.6817
2/28/2008	0	0	0	0.055		0.056	0.2277	0	2.5552
2/29/2008	0	0	0	0.053		0.064	0.2228	0	2.6737
3/1/2008	0	0	0	0.054		0.068	0.2072	0	2.618
3/2/2008	0	0	0	0.053		0.061	0.1995	0	2.5217
3/3/2008	0.1	0	0	0.053		0.055	0.2174	0	2.3279
3/4/2008	0.1	0	0	0.051		0.054	0.2207	0	2.4517
3/5/2008	0	0	0	0.048		0.056	0.2211	0	2.5054
3/6/2008	0	0	0	0.045		0.059	0.2234	0	2.5135
3/7/2008	0	0	0	0.044		0.062	0.2363	0	2.6252
3/8/2008	0	0.5	0	0.048		0.065	0.2205	0	2.5831
3/9/2008	2.2	1.2	0.2	0.079		0.118	0.3464	0.015	2.6151
3/10/2008	0	0	0	0.084		0.084	0.47	0.025	3.9108
3/11/2008	0	0	0	0.065		0.066	0.2627	0	2.7815
3/12/2008	0	0	0	0.054		0.059	0.2437	0	2.6394
3/13/2008	0	0	0	0.054	0.0059	0.06	0.245	0	2.5773
3/14/2008	0	0	0	0.053	0.0052	0.058	0.2473	0	2.6266
3/15/2008	0	0	0	0.054	0.0062	0.06	0.2505	0	2.5609
3/16/2008	0	0	0	0.053	0.0059	0.06	0.2335	0	2.3383
3/17/2008	0	0	0	0.057	0.005	0.059	0.215	0	2.3648
3/18/2008	0	0	0	0.061	0.0043	0.057	0.1984	0	2.4251
3/19/2008	3.7	0.5	1.5	0.066	0.0045	0.056	0.2324	0	2.4046
3/20/2008	0	0	0	0.059	0.0048	0.056	0.278	0	2.8669
3/21/2008	0	0	0	0.046	0.004	0.057	0.2185	0	2.1548
3/22/2008	2.2	2.9	1.7	0.054	0.0039	0.081	0.5078	0	2.8583

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3/23/2008	0	0	0	0.133	0.004	0.078	0.4814	0.009	3.822
3/24/2008	0	0	0	0.068	0.003	0.059	0.2978	0	2.5007
3/25/2008	0	0	0	0.054	0.0028	0.057	0.2731	0	2.5116
3/26/2008	0.5	0	0.2	0.051	0.0049	0.055	0.2765	0	2.5793
3/27/2008	0	0	0	0.054	0.0052	0.056	0.2763	0	2.6037
3/28/2008	0	0	0	0.054	0.0037	0.055	0.2745	0	2.5825
3/29/2008	0	0	0	0.055	0.0056	0.054	0.2773	0	2.5125
3/30/2008	16.5	9.6	9.4	0.064	0.005	0.053	0.2672	0	2.383
3/31/2008	0.1	0	0.1	0.282	0.0059	0.102	0.8633	0.153	7.2191
4/1/2008	0	0	0	0.105	0.0063	0.069	0.3735	0	3.1525
4/2/2008	0	0	0	0.069	0.0065	0.062	0.308	0	2.8427
4/3/2008	0	1.9	0	0.05	0.0065	0.053	0.3054	0	2.742
4/4/2008	0	0	0	0.052	0.0066	0.052	0.3143	0	2.6381
4/5/2008	0	0	0	0.058	0.0073	0.052	0.2792	0	2.555
4/6/2008	0	0		0.056	0.0062	0.051	0.2757	0	2.4113
4/7/2008	0.2	0	0	0.059	0.0051	0.053	0.3006	0	2.4591
4/8/2008	1.5	1	1.6	0.055	0.0074	0.052	0.335	0	2.4912
4/9/2008		0.1	0	0.054	0.0083	0.05	0.3401	0	2.7439
4/10/2008	0	0	0.5	0.056	0.0085	0.049	0.3187	0	2.5388
4/11/2008	8.1	3.3	8.1	0.08	0.0067	0.054	0.324	0.001	3.3551
4/12/2008	0	0	0	0.474	0.0097	0.082	0.3767	0.016	4.0211
4/13/2008		0	0	0.091	0.0074	0.056	0.2554	0	2.4616
4/14/2008	0	0	0	0.067	0.007	0.053	0.2726	0	2.452
4/15/2008	0	0	0	0.063	0.0088	0.051	0.3649	0	2.4926
4/16/2008	0.2	0	0	0.061	0.0082	0.05	0.3187	0	2.4868
4/17/2008	9.5	20	20	0.153	0.0135	0.113	0.8314	0.354	9.5673
4/18/2008	2.3	1.1	1.4	0.25	0.0102	0.146	0.5194	0.174	4.6235
4/19/2008	0	0	0	0.205	0.0073	0.111	0.4713	0.081	4.1253
4/20/2008	0.6	0.6	0.7	0.198	0.0052	0.103	0.3575	0	2.9226
4/21/2008	0	0	0	0.188	0.0067	0.101	0.3652	0	2.9738
4/22/2008	0	0	0	0.1	0.0058	0.082	0.3673	0	2.8119
4/23/2008	0	0	0.3	0.084	0.0063	0.077	0.3867	0.01	2.9717
4/24/2008	0	0	0	0.101	0.0069	0.065	0.361	0.02	3.0729
4/25/2008	0	0	0	0.081	0.007	0.059	0.3239	0	2.6284
4/26/2008	0	0	0	0.079	0.0067	0.053	0.2976	0	2.489
4/27/2008	0	0	0	0.066	0.0062	0.049	0.2702	0	2.2088
4/28/2008	1.2	0.6	0.6	0.061	0.0055	0.048	0.3334	0	2.3873
4/29/2008	0.7	0	0	0.058	0.0089	0.048	0.3449	0	2.5705
4/30/2008	0	0	1.7	0.048	0.0101	0.046	0.3313	0	2.491
5/1/2008	0	0	0	0.035	0.0089	0.044	0.2189	0	2.2379
5/2/2008	0	0	0	0.03	0.0074	0.041	0.1723	0	1.8026
5/3/2008	0	0	0	0.028	0.007	0.04	0.1764	0	1.6654
5/4/2008	0	0	0	0.031	0.0073	0.039	0.3072	0	1.5993
5/5/2008		0		0.031	0.0074	0.037	0.2669	0	1.9578
5/6/2008	0	3.9		0.032	0.0163	0.037	0.2311	0	2.1291
5/7/2008	0	0	0	0.033	0.0213	0.037	0.1239	0	2.1464
5/8/2008	2.6	14.6	2.1	0.033	0.0237	0.038	0.2225	0	2.163
5/9/2008	39.1	13.8	31.4	0.038	0.038	0.047	0.4807	0.157	8.8427
5/10/2008	37.3	13.7	34.9	0.234	0.3627	0.247	1.6947	1.393	18.3914
5/11/2008	1.1	0	0.7	1.07	0.7651	0.218	1.8585	0.733	14.023
5/12/2008		0	0	0.314	0.031	0.138	0.5242	0.037	5.3965
5/13/2008	0	14.4	0.1	0.097	0.0093	0.131	0.3839	0	4.7164
5/14/2008	0.7		0.9	0.057	0.008	0.129	0.3241	0	3.7222

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5/15/2008		0	0	0.05	0.008	0.118	0.231	0	3.5222
5/16/2008	0	0	0.1	0.047	0.0068	0.102	0.1367	0	3.2266
5/17/2008	2.2	0.2	0.4	0.081	0.0065	0.1	0.1661	0.015	3.3245
5/18/2008	0.2	0	0	0.05	0.0083	0.099	0.2766	0.052	3.4107
5/19/2008	1.1	0	24.1	0.084	0.0067	0.093	0.2645	0.04	4.6732
5/20/2008	0	0	0	0.103	0.009	0.079	0.2444	0.015	3.2244
5/21/2008	0.2	0	0.2	0.056	0.0088	0.067	0.2354	0	3.0198
5/22/2008	0.8	0.6	3.3	0.097	0.0157	0.085	0.3156	0.006	3.63
5/23/2008	1.8	1.5	2.5	0.147	0.0257	0.074	0.3246	0.021	3.7091
5/24/2008	13.6	3.9	2.6	0.082	0.0158	0.122	0.3921	0.205	6.7942
5/25/2008	9	5.8	22.8	3.026	1.4169	0.298	0.8821	1.061	14.6941
5/26/2008	3.8	3.1	3.7	1.624	0.0936	0.295	0.4244	0.6	11.5562
5/27/2008	0.5	0.6	0.4	1.395	0.0556	0.215	0.1882	0.282	8.7651
5/28/2008		0	0	0.943	0.0396	0.184	0.1914	0.035	5.6825
5/29/2008	0	0	0	0.461	0.0312	0.164	0.1265	0.007	4.7667
5/30/2008	0	0	0	0.251	0.0235	0.146	0.1018	0	4.1374
5/31/2008	6.9	14.3	7	0.149	0.0209	0.138	0.1944	0	3.633
6/1/2008	0.6	1.5	2.3	0.143	0.0354	0.165	0.4141	0.125	7.9588
6/2/2008		0	1.8	0.12	0.0161	0.191	0.3225	0.606	5.5666
6/3/2008	4	17.1	15.6	0.445	0.0109	0.234	1.4735	0.236	9.5464
6/4/2008	0	0	0	0.326	0.0133	0.181	0.499	0.114	6.2216
6/5/2008	19.6	46.2	56.9	0.608	0.1232	0.25	1.4704	1.36	11.3355
6/6/2008	0.3	2.7	0	1.534	0.1745	0.34		1.853	17.3442
6/7/2008	1.5	0.6	3	1.088	0.115	0.278		0.555	9.3835
6/8/2008	0	0	0	1.632	0.1108	0.305		0.798	12.8197
6/9/2008	1.1	1.1	0.9	1.022	0.0809	0.253		0.234	7.6341
6/10/2008	1.8	2.3	2.9	0.603	0.0509	0.232		0.163	7.2774
6/11/2008	0		0	0.511	0.0548	0.246		0.082	6.2443
6/12/2008	0	0.3	0	1.045	0.0614	0.319		0.113	7.954
6/13/2008	0	0	0	0.707	0.068	0.279		0.203	7.1134
6/14/2008		0	0	0.679	0.0606	0.241			6.0877
6/15/2008		0	0	0.381	0.055	0.224			5.1161
6/16/2008	1	0	0	0.382	0.0599	0.22			4.8918
6/17/2008	0.2	1.7	0	0.366	0.0575	0.25			10.3908
6/18/2008	0	0	0	0.316	0.0529	0.198			6.8421
6/19/2008	0	0	0	0.201	0.051381944	0.183			5.110284722
6/20/2008	0	0	0	0.163	0.0522	0.172			4.7228
6/21/2008	0	0	0	0.146	0.0491	0.147			4.1095
6/22/2008	0	0	0	0.126	0.0474	0.136			3.5953
6/23/2008	0	0	0	0.104	0.0462	0.128			3.4121
6/24/2008	0	0	0	0.099	0.0463	0.118			3.2265
6/25/2008	0	0		0.094	0.0497	0.105			3.49
6/26/2008	8	4.9		0.088	0.0574	0.091			3.4172
6/27/2008	0	0	0	0.639	0.0819	0.17			7.0298
6/28/2008	0	0	0	0.144	0.0705	0.145			3.9621
6/29/2008	0	0	0	0.106	0.0803	0.136			3.3193
6/30/2008	0	0	0	0.083	0.095	0.125			3.327
7/1/2008	0	0	0	0.065	0.1066	0.117			3.2894
7/2/2008	0	0	0	0.053	0.1523	0.105			3.0909
7/3/2008	0.2	0	0	0.104	0.1248	0.119			3.0022
7/4/2008	0	0	0	0.11	0.1905	0.101			3.0746
7/5/2008	0	0	0	0.05	0.2485	0.096			2.9409
7/6/2008		0	0	0.048	0.3513	0.118			3.9108

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7/7/2008		0	0	0.056	0.0758	0.085			3.7944
7/8/2008	0	0	0	0.049	0.0721	0.098			3.0138
7/9/2008	0	0	0	0.046	0.0769	0.095			2.9806
7/10/2008	0	0		0.044	0.0837	0.084			2.9556
7/11/2008	0	0	0	0.039	0.0863	0.066			2.8105
7/12/2008	55.6	30	15.4	0.241	0.1178	0.102			6.4061
7/13/2008	0	0	0	0.408	0.1664	0.134			5.5937
7/14/2008	0	0	0	0.106	0.055	0.128			3.0721
7/15/2008	0	0	0	0.086	0.0541	0.117			3.0654
7/16/2008	0.1	0	0	0.071	0.0574	0.1			3.1412
7/17/2008	0	0	0	0.056	0.0605	0.082			2.9087
7/18/2008	0	0	0	0.053	0.0645	0.077			2.8591
7/19/2008	0	0	0	0.05	0.0693	0.072			2.6171
7/20/2008	0	0	0	0.048	0.0747	0.055			2.1335
7/21/2008		0	0	0.048	0.0756	0.031			2.4332
7/22/2008	0	0	0	0.048	0.0754	0.034			2.4275
7/23/2008	0	3.9	0	0.046	0.0671	0.048			2.4803
7/24/2008	0	0	0	0.042	0.0626	0.047			2.4992
7/25/2008	0	0	0	0.038	0.0634	0.046			2.4747
7/26/2008	0	0	0	0.036	0.0597	0.046			2.2206
7/27/2008	0	0	0	0.031	0.0612	0.046			2.0289
7/28/2008	0	0	0	0.032	0.0605	0.046			2.1462
7/29/2008	0	0	0	0.032	0.0569	0.046			2.1722
7/30/2008	0	0	0	0.038	0.055	0.046			2.1522
7/31/2008	0	0	0	0.032	0.0525	0.046			2.1269
8/1/2008	0	0	0	0.032	0.0534	0.046		0	2.0753
8/2/2008	0	0	0	0.035	0.0504	0.046		0	1.9995
8/3/2008	0	0	0	0.033	0.0536	0.046		0	1.8179
8/4/2008	0	0	0	0.025	0.0506	0.045		0	1.9056
8/5/2008		0	0	0.025	0.0571	0.045		0	1.755
8/6/2008	0	0	0	0.025	0.0578	0.045		0	1.6502
8/7/2008		0	0	0.026	0.054388889	0.045		0	1.615986111
8/8/2008	0	0	0	0.015	0.053909722	0.045		0	1.6884375
8/9/2008	0	0	0	0.018	0.053836806	0.045		0	1.462125
8/10/2008	0	0	0	0.019	0.055565972	0.045		0	1.0100625
8/11/2008		0	0.1	0.019	0.049079861	0.045		0	1.327159722
8/12/2008	0	0	0	0.018	0.0525	0.043		0	1.393111111
8/13/2008	0	0	0	0.015	0.043170139	0.043		0	1.153972222
8/14/2008	0.6	0	0.2	0.015	0.034208333	0.043		0	1.208347222
8/15/2008	0	0	0	0.194	0.0360625	0.042		0	1.009006944
8/16/2008	0	0	0	0.024	0.036684028	0.041		0	1.0734375
8/17/2008	0	0	0	0.02	0.032107639	0.041		0	0.905003472
8/18/2008	0	0	0	0.019	0.030333333	0.039		0	0.905003472
8/19/2008	0	0	0	0.02	0.025493056	0.038		0	0.892743056
8/20/2008	0	0	0	0.022	0.020743056	0.039		0	0.810729167
8/21/2008	0	0	0	0.019	0.019625	0.038		0	0.764271739
8/22/2008	11.2		18.5	0.018	0.016638889	0.045		0	1.763703704
8/23/2008			0	0.061	0.008732639	0.058		0	1.281709677
8/24/2008	0		0	0.036	0.008555556	0.049		0	1.281709677
8/25/2008			0	0.028	0.008	0.047		0	1.281709677
8/26/2008	0	0	0	0.035	0.008	0.045		0	1.281709677
8/27/2008	0		0	0.03	0.008167247	0.044		0	1.763703704
8/28/2008	0		0	0.025	0.008135417	0.044		0	1.763703704

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8/29/2008	0		0	0.023	0.008145833	0.042		0	1.763703704
8/30/2008	0		0	0.019	0.008138889	0.042		0	1.763703704
8/31/2008	0		0	0.019	0.008	0.041		0	1.763703704
9/1/2008	0	0	0	0.118	0.008	0.04		0	2.062467532
9/2/2008	0	0	0	0.033	0.008958333	0.04		0	2.049083333
9/3/2008	0	0	0	0.028	0.008798611	0.04		0	2.253213592
9/4/2008	0	0	0	0.025	0.008434028	0.04		0	2.3585
9/5/2008	0	0	0	0.024	0.008513889	0.039		0	2.216007194
9/6/2008	0.1	0.1	0.3	0.022	0.008	0.039		0	2.229034722
9/7/2008	0	0	0	0.025	0.007798611	0.039		0	2.064298611
9/8/2008		0	0	0.025	0.007645833	0.038		0	2.222868056
9/9/2008		0	0	0.023	0.007989583	0.037		0	2.301923611
9/10/2008	0	0	0	0.022	0.008	0.035		0	2.345895833
9/11/2008	2.2	2	0.3	0.023	0.008	0.034		0	2.237854167
9/12/2008	0	0	0	0.025	0.007815972	0.036		0	2.2981875
9/13/2008	0.1	0	0	0.024	0.007409722	0.05		0	2.236722222
9/14/2008	0	0	0	0.029	0.007423611	0.047		0	2.075145833
9/15/2008	0	0	0	0.025	0.007496528	0.043		0	2.292215278
9/16/2008	0	0	0	0.027	0.007524306	0.04		0	2.350930556
9/17/2008		0	0	0.028	0.007649306	0.036		0	2.390152778
9/18/2008		0	0	0.028	0.007746528	0.033		0	2.430631944
9/19/2008	1.9	4.2	2.2	0.039	0.008197917	0.037		0.154	4.022506944
9/20/2008		0	0.1	0.1	0.007982639	0.049		0.084	3.450697917
9/21/2008	0	0	0	0.045	0.007739583	0.038		0	2.497381944
9/22/2008	16.4	11.8	6.6	0.045	0.007524306	0.033		0.005	4.770451389
9/23/2008	2.4	1.7	1.1	0.048	0.007913194	0.031		0.013	3.507975694
9/24/2008		0	1.2	0.055	0.007	0.03		0.011	3.342520833
9/25/2008	0.4	0.7	0	0.048	0.007309028	0.029		0	2.772881944
9/26/2008	2.3	6.3	5.6	0.045	0.007	0.029		0	3.545034722
9/27/2008	0	0	0	0.048	0.007298611	0.028		0	2.743701389
9/28/2008	0	0	0	0.048	0.007197917	0.027		0	2.491131944
9/29/2008	0	0	0	0.046	0.007388889	0.026		0	2.571423611
9/30/2008	0	17.1	0	0.047	0.007333333	0.025		0	2.609895833
10/1/2008	0		0	0.029	0.007302083	0.024		0	2.673284722
10/2/2008	0.4	2.8	0.1	0.025	0.007333333	0.023		0	2.729416667
10/3/2008	0	0	0	0.028	0.007142361	0.022		0.026	3.86165625
10/4/2008	0	0	0	0.03	0.006774306	0.023		0	2.892597222
10/5/2008	0	0	0	0.025	0.006753472	0.021		0	2.494069444
10/6/2008	0	0	0	0.029	0.007322917	0.02		0	2.628722222
10/7/2008	0.2	0.1	0.6	0.039	0.007496528	0.018		0	2.659916667
10/8/2008	1.6	0.3	0.3	0.086	0.007274306	0.104		0.074	3.697201389
10/9/2008	0.1	0	0	0.056	0.007211806	0.062		0.099	4.000145833
10/10/2008	0	0	0	0.045	0.007350694	0.053		0	2.905069444
10/11/2008	0	0	0	0.045	0.007216028	0.051		0	2.643367273
10/12/2008	0.2	0	0.4	0.045	0.007458333	0.049		0	2.500048611
10/13/2008	0	0	0	0.041	0.00784375	0.047		0	2.658465278
10/14/2008	0	0	0	0.032	0.007541667	0.045		0	2.75925
10/15/2008	0	0	0	0.033	0.007534722	0.043		0	2.704902778
10/16/2008		1.9	0	0.032	0.007545139	0.042		0.303	4.904923611
10/17/2008	4.6	4.3	0.7	0.033	0.006548611	0.04		0.002	2.843194444
10/18/2008	2.2	4.2	1	0.081	0.005881944	0.07		0.074	4.014267361
10/19/2008	0	0	0	0.067	0.005611111	0.051		0.008	2.797152778
10/20/2008	0	0	0	0.036	0.034934028	0.046		0	2.630736111

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10/21/2008	0		0	0.03	0.049625	0.042		0	2.7164375
10/22/2008	0.8		0.4	0.031	0.046715278	0.04		0	2.820944444
10/23/2008	2.5	1.1	2.2	0.034	0.043732639	0.038		0	3.522017361
10/24/2008	0	0	0	0.034	0.045204861	0.037		0	2.862069444
10/25/2008	0	0	0	0.029	0.047480836	0.036		0	2.594013937
10/26/2008	0	0		0.026	0.0465625	0.036		0	2.422111111
10/27/2008	1.2	1.1		0.025	0.046215278	0.02		0	2.615826389
10/28/2008	37.2	32.4	34.2	0.044	0.050305556	0.143		0.824	13.23275694
10/29/2008	12.6	4	13.9	0.362	0.079715278	0.175		0.957	16.33380556
10/30/2008	3.4	7.6	0	0.139	0.051322917	0.105		0.057	4.920104167
10/31/2008	16.2	31.3	23.2	0.21	0.047833333	0.135		0.143	6.987652778
11/1/2008	5.2	5.7	4.8	1.63	0.105586806	0.229		0.694	13.51973264
11/2/2008	27.6	18.2	29.8	9.615	1.311125	0.388		1.773	20.49898611
11/3/2008	0	0	0	2.321	0.092256944	0.26		0.513	13.60774306
11/4/2008	0	0	0	1.1	0.06984375	0.188		0.058	6.816326389
11/5/2008	0	0	0	0.553	0.053670139	0.154		0.014	5.136038194
11/6/2008	0	0	0	0.294	0.047416667	0.133		0	4.402638889
11/7/2008	0	0	0	0.184	0.039256944	0.122		0	3.821534722
11/8/2008		0	0	0.135	0.032121528	0.117		0	3.418368056
11/9/2008	0	0	0	0.099	0.043329861	0.109		0	3.098166667
11/10/2008	0	0	0	0.074	0.044083333	0.102		0	3.184604167
11/11/2008	1.2	0	0	0.066	0.04490625	0.096		0	3.226576389
11/12/2008	3.2	2.2	1.4	0.083	0.046868056	0.104		0.016	4.573361111
11/13/2008	0	0	0	0.089	0.047385417	0.101		0.021	3.789454861
11/14/2008	0	0	0	0.065	0.039538194	0.098		0	3.312888889
11/15/2008	0	0	0	0.058	0.040496528	0.094		0	3.062791667
11/16/2008	0	0	0	0.056	0.040822917	0.089		0	2.874527778
11/17/2008	0	0	0	0.052	0.04471875	0.087		0	2.942625
11/18/2008	0	0	0	0.051	0.047326389	0.084		0	3.040361111
11/19/2008	0	0	0	0.054	0.047447917	0.083		0	3.021104167
11/20/2008	0	0	0	0.044	0.046777778	0.081		0	2.944645833
11/21/2008	0	0	0	0.045	0.046982639	0.08		0	2.927125
11/22/2008	0	0	0	0.046	0.04865625	0.079		0	2.882020833
11/23/2008	0	0	0	0.043	0.048170139	0.078		0	2.754131944
11/24/2008	0	0	0	0.042	0.048677083	0.081		0	2.827694444
11/25/2008	0.2	1.9	0.1	0.044	0.043246528	0.095		0	2.849222222
11/26/2008	0	0	0	0.051	0.042295139	0.104		0	3.2314375
11/27/2008	12.5	8.2	5.9	0.044	0.041541667	0.085		0	2.928701389
11/28/2008		0	0	0.052	0.044489583	0.091		0.057	5.061215278
11/29/2008	1.7	5.3	2.2	0.052	0.042569444	0.09		0.014	3.550038194
11/30/2008	0	0	0	0.059	0.043243056	0.086		0.009	2.896618056
12/1/2008	0	0	0	0.044	0.045402778	0.086		0	2.871791667
12/2/2008	0	0	0	0.041	0.044298611	0.081		0	2.9
12/3/2008	0	0	0	0.044	0.043611111	0.079		0	2.858444444
12/4/2008	0	0	0	0.044	0.044850694	0.08		0	2.8664375
12/5/2008	0	0	0	0.039	0.047517361	0.078		0	2.837923611
12/6/2008	0	0	0	0.04	0.045965278	0.078		0	2.6226875
12/7/2008	0	0	0	0.038	0.047440972	0.076		0	2.474951389
12/8/2008	11.3	7.1	6.1	0.037	0.047892361	0.075		0	2.508020833
12/9/2008	13.4	18.8	8.1	0.06	0.0546875	0.083		0.171	5.257836806
12/10/2008	0.6	3.5	0.1	0.072	0.051670139	0.126		0.334	8.264763889
12/11/2008	0	0	0	0.06	0.044184028	0.094		0.028	3.215861111
12/12/2008	0	0	0	0.049	0.042496528	0.09		0.007	3.099631944

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12/13/2008	6.9	8.1	6.4	0.047	0.044736111	0.096		0.004	3.061965278
12/14/2008	0.1	0.1	0	0.133	0.045739583	0.121		0.14	5.704607639
12/15/2008	4.7	6.6	1.3	0.068	0.033423611	0.109		0.039	3.435902778
12/16/2008	2.9	3.5	1	0.061	0.043541667	0.101		0.021	3.662333333
12/17/2008	0	0	0	0.064	0.043579861	0.095		0	3.251083333
12/18/2008	0	0	0	0.06	0.046291667	0.091		0	3.018590278
12/19/2008	0	0	0	0.056	0.04559375	0.089		0	2.945993056
12/20/2008	0	0	0	0.053	0.046684028	0.088		0	2.810930556
12/21/2008	0	0	0	0.05	0.046190972	0.086		0	2.670423611
12/22/2008	0	0	0	0.049	0.045215278	0.083		0	2.689097222
12/23/2008	0	0	0	0.048	0.043732639	0.082		0	2.761548611
12/24/2008	0	0	0	0.052	0.044395833	0.083		0	2.764666667
12/25/2008		0	0.1	0.049	0.044715278	0.084		0	2.694006944
12/26/2008	34.5	14.2	44.4	0.183	0.051527778	0.139		0.65	10.136625
12/27/2008	17.6	5.5	30.8	5.71	0.177909722	0.29		1.635	25.59451389
12/28/2008	1.4	0.1	0.8	4.739	0.758583333	0.24		0.778	21.43298958
12/29/2008	2	0.3	1.7	1.788	0.128739583	0.223		0.145	12.03739931
12/30/2008	1.4	0.3	1.4	1.463	0.118041667	0.215		0.107	8.913371528
12/31/2008	0	0	0.1	1.315	0.109451389	0.2		0.051	7.810027778
1/1/2009	0	0	0	1.109	0.098333333	0.188		0.04	6.380486111
1/2/2009	0.4	0.1	0.2	0.762	0.089326389	0.179		0.035	5.783930556
1/3/2009	0.5	0	0	0.551	0.077684028	0.173		0.035	5.290163194
1/4/2009	0	0	0	0.418	0.075038194	0.166		0.031	4.9130625
1/5/2009	0	0	0	0.356	0.083135417	0.159		0.028	4.845072917
1/6/2009	14.3	46.4	15.1	0.32	0.082927083	0.174		0.431	9.728385417
1/7/2009	0	0	0	0.352	0.082152778	0.177		0.211	8.335951389
1/8/2009	0.3	0	0	0.283	0.073572917	0.157		0.058	5.363430556
1/9/2009	20.7	16.2	15	0.32	0.071385417	0.155		0.067	5.5569375
1/10/2009	1.8	2.6	2.9	1.542	0.090065972	0.233		0.573	14.97314931
1/11/2009	0	0	0	1.672	0.077559028	0.209		0.086	8.64415625
1/12/2009	0	0	0	1.312	0.083253472	0.21		0.071	7.187100694
1/13/2009	0	0	0	0.991	0.096701389	0.204		0.064	6.410868056
1/14/2009	0	0	0	0.807	0.095173611	0.194		0.058	5.909642361
1/15/2009	0	0	0	0.723	0.088486111	0.183		0.056	5.604770833
1/16/2009	0	0	0	0.606	0.083017361	0.169		0.048	5.31928125
1/17/2009	0	0	0	0.513	0.072236111	0.157		0.044	4.960979167
1/18/2009	0	0	0	0.468	0.068913194	0.157		0.042	4.630041667
1/19/2009	0.3	0.2	1.1	0.446	0.082836806	0.161		0.041	4.736260417
1/20/2009	0	0	0	0.557	0.0855	0.167		0.051	5.118711806
1/21/2009	0	0	0	0.484	0.078600694	0.159		0.038	4.760982639
1/22/2009	0.3	0.1	0.1	0.439	0.075552083	0.158		0.036	4.559173611
1/23/2009	0	0	0	0.425	0.080385417	0.156		0.033	4.503479167
1/24/2009	0	0	0	0.406	0.060579861	0.153		0.025	4.155263889
1/25/2009	0.1	0	0	0.374	0.044604167	0.159		0.023	3.943097222
1/26/2009	0	0	0	0.36	0.052375	0.158		0.023	4.069930556
1/27/2009	0	0	0	0.353	0.054934028	0.156		0.022	4.115479167
1/28/2009	0	0	0	0.334	0.069722222	0.154		0.025	4.126284722
1/29/2009	0	0	0	0.324	0.070395833	0.153		0.022	3.961298611
1/30/2009	2.1		0	0.317	0.070416667	0.15		0.019	3.954520833
1/31/2009	28.1	1.7	27.2	0.964	0.105993056	0.28		1.001	11.043875
2/1/2009	15.2	7.4	11.1	2.382	0.367503472	0.382		1.331	18.81604514
2/2/2009	19.9	20.7	13.7	3.131	1.560055556	0.427		1.299	16.98688542
2/3/2009	3	3.9	0.9	4.427	1.602270833	0.474		1.829	22.16134375

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2/4/2009	0	0	0	2.821	1.129885417	0.431		0.977	15.69332639
2/5/2009	1.2	1.7	0.6	2.463	0.737055556	0.368		0.685	12.55371875
2/6/2009	1.8	0	1	2.381	0.380097222	0.327		0.541	10.78984375
2/7/2009	0	0	0	2.144	0.12478125	0.304		0.415	9.447541667
2/8/2009	0	0	0	1.708	0.064420139	0.278		0.286	8.069847222
2/9/2009	0	0	0	1.415	0.402055749	0.259		0.241	7.446416667
2/10/2009	0	0	0	1.271	0.573013889	0.241		0.196	7.053145833
2/11/2009	0.3	0		1.173	0.181496528	0.232		0.196	6.637020833
2/12/2009	0	0.5	0	1.111	0.151958333	0.225		0.191	6.258878472
2/13/2009	0	0		1.033	0.135309028	0.217		0.16	5.914864583
2/14/2009	0	0	0	0.958	0.131493056	0.212		0.157	5.762527778
2/15/2009	0	0	0	0.926	0.120545139	0.206		0.149	5.431315972
2/16/2009	0	0		0.939	0.124447917	0.198		0.141	5.482201389
2/17/2009	0	0		0.884	0.113520833	0.191		0.118	5.352934028
2/18/2009	0	0		0.876	0.118847222	0.187		0.097	5.174871528
2/19/2009	0	0		0.84	0.11421875	0.185		0.103	5.103378472
2/20/2009	0	0		0.824	0.106586806	0.185		0.098	4.954208333
2/21/2009	0	0	0	0.786	0.086048611	0.181		0.082	4.725961806
2/22/2009	0	0		0.767	0.076722222	0.18		0.074	4.459840278
2/23/2009	0	0	0	0.768	0.103180556	0.178		0.072	4.517798611
2/24/2009	0	0	0	0.687	0.108010417	0.174		0.088	4.617236111
2/25/2009	0	0	0	0.539	0.096513889	0.171		0.084	4.530083333
2/26/2009	0	0	0	0.516	0.089496528	0.176		0.08	4.496965278
2/27/2009	0	0	0	0.329	0.104482639	0.178		0.075	4.452111111
2/28/2009	0.1	0	0.1	0.203	0.107715278	0.174		0.07	4.257625
3/1/2009	0.8	0	0.4	0.216	0.114263889	0.167		0.068	4.178666667
3/2/2009	9	0	5.5	0.199	0.09065625	0.167		0.062	4.435479167
3/3/2009	0.8	0.5	0	0.272	0.096333333	0.175		0.152	6.097885417
3/4/2009	3.4	2.4	1.7	0.263	0.11803125	0.166		0.094	4.717993056
3/5/2009	0	0	0	0.275	0.121642361	0.162		0.08	4.569097222
3/6/2009	0	0	0	0.242	0.120996528	0.152		0.052	4.270993056
3/7/2009	0	0	0	0.211	0.119472222	0.149		0.05	4.0248125
3/8/2009		0	0	0.194	0.120927083	0.144		0.049	3.756722222
3/9/2009	1.7	0.1	0.2	0.198	0.117416667	0.144		0.043	3.804680556
3/10/2009	0	0	0	0.237	0.108916667	0.145		0.045	3.898083333
3/11/2009	0	0	0	0.215	0.098076389	0.147		0.045	3.846638889
3/12/2009	0	0	0	0.213	0.099545139	0.148		0.047	3.750493056
3/13/2009	0	0	0	0.224	0.111604167	0.146		0.041	3.697659722
3/14/2009	0	0	0	0.222	0.126291667	0.139		0.041	3.522
3/15/2009	0		0	0.223	0.115829861	0.135		0.04	3.369597222
3/16/2009	0		0	0.198	0.092489583	0.131		0.039	3.440840278
3/17/2009	0	0	0	0.2	0.116763889	0.126		0.038	3.563236111
3/18/2009	0	0	0	0.19	0.120527778	0.125		0.037	3.462569444
3/19/2009	0	0	0	0.193	0.120333333	0.127		0.037	3.434868056
3/20/2009	0	0	0	0.207	0.122260417	0.131		0.036	3.382118056
3/21/2009	0	0	0	0.216	0.11221875	0.128		0.033	3.325166667
3/22/2009	0	0	0	0.202	0.111847222	0.126		0.033	3.189444444
3/23/2009	0	0	0	0.202	0.121246528	0.121		0.032	3.229465278
3/24/2009	0	0	0	0.212	0.111854167	0.117		0.031	3.350194444
3/25/2009	0	0	0	0.221	0.099010417	0.121		0.031	3.323472222
3/26/2009	0	0	0	0.217	0.122440972	0.125		0.032	3.315770833
3/27/2009	0.4	0.2	0.8	0.204	0.130097222	0.121		0.023	3.299201389
3/28/2009	20.9	14.7	18.6	0.347	0.200934028	0.149		0.16	5.776076389

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
3/29/2009	1.1	1.1	0.7	0.668	0.679940972	0.187		0.369	9.963788194
3/30/2009	2.6	0.4	2.6	0.304	0.116871528	0.14		0.069	4.362065972
3/31/2009	33.4	27.1	25.4	0.653	0.388895833	0.198		0.545	10.31788194
4/1/2009	1.5	2.8	0.2	1.535	0.927350694	0.208		0.476	12.50990625
4/2/2009	7	5.2	5.1	1.178	0.502375	0.223		0.42	9.766232639
4/3/2009		0	0	0.982	0.43278125	0.199		0.15	6.029319444
4/4/2009	0	9.9	0	0.685	0.405840278	0.194		0.094	5.06471875
4/5/2009	0		0	0.509	0.302550523	0.191		0.08	4.479506944
4/6/2009	0.5	2.8	0.4	0.336	0.2064375	0.183		0.067	4.412833333
4/7/2009	27.3	13.9	20.7	0.27	1.036534722	0.209		0.341	7.835690972
4/8/2009		0	0	1.421	0.757065972	0.292		0.666	10.96595486
4/9/2009	0.2	0	0	0.91	1.147440972	0.233		0.143	5.846746528
4/10/2009	12.3	8.3	14.7	0.66	1.967887931	0.23		0.201	5.916607639
4/11/2009	0.3	0.3	0.1	1.433	1.891484536	0.306		0.93	13.29474653
4/12/2009	5.7	4.7	3.2	1.438	1.088208333	0.274		0.294	9.036430556
4/13/2009	0	0	0	1.442	1.584583333	0.264		0.204	7.945222222
4/14/2009	0.3	0	0.3	1.239	1.622947917	0.253		0.148	7.03884375
4/15/2009	0	0	0.1	0.992	1.29053125	0.241		0.121	6.420576389
4/16/2009	4.1	1.3	0.4	0.735	0.653947917	0.236		0.102	6.389072917
4/17/2009	4	0.6	0.1	0.535	0.968385417	0.24		0.148	6.921340278
4/18/2009	0	0	0.1	0.525	1.376645833	0.253		0.301	7.167958333
4/19/2009	0	0	0	0.418	0.933086806	0.22		0.198	6.23921875
4/20/2009		0	0	0.431	0.724878472	0.21		0.119	5.528395833
4/21/2009	1.5	0.1	4.3	0.456	1.244864583	0.195		0.107	5.973315972
4/22/2009	0	0	0	0.399	0.9416875	0.181		0.09	5.162854167
4/23/2009	0	0	0	0.335	0.727253472	0.172		0.056	4.807899306
4/24/2009	0	0	0	0.279	1.255847222	0.166		0.044	4.543
4/25/2009	0.4	0	0	0.224	0.999114583	0.169		0.045	4.343041667
4/26/2009	15.3	9.7	6.8	0.303	0.849215278	0.235		0.247	7.054423611
4/27/2009	0	0	0	0.312	1.306701389	0.206		0.129	5.721229167
4/28/2009	0	0	0	0.262	1.215097222	0.175		0.084	4.777333333
4/29/2009	0	0	0	0.216	1.2048125	0.168		0.059	4.329784722
4/30/2009	8.4	7.6	11.5	0.226	1.450763889	0.192		0.106	5.787888889
5/1/2009	5.7	2.2	3	0.981	2.211138889	0.265		0.499	10.55294097
5/2/2009	0	0	0	0.589	1.763666667	0.208		0.165	5.290270833
5/3/2009	0	0	0	0.404	1.830347222	0.197		0.087	4.456722222
5/4/2009	0	0	0	0.331	1.656371528	0.19		0.062	4.447138889
5/5/2009	0	0	0	0.302	1.604420139	0.185		0.054	4.354555556
5/6/2009	0	0	0	0.238	1.918336806	0.176		0.043	4.202381944
5/7/2009		0	0	0.198	1.733225694	0.161		0.038	3.967958333
5/8/2009	0	0	0	0.162	1.672631944	0.165		0.028	3.832340278
5/9/2009	0.2	0	0.1	0.152	1.500819444	0.168		0.018	3.639555556
5/10/2009	0		0	0.137	1.688243056	0.167		0.017	3.476048611
5/11/2009	0	0	0	0.136	1.207451389	0.168		0	3.516729167
5/12/2009	0	16.4	0	0.127	1.037336806	0.164		0	3.613965278
5/13/2009	0.3		0.2	0.128	1.046954861	0.16		0	3.643340278
5/14/2009	8.7		5.1	0.215	0.872878472	0.189		0.026	4.780993056
5/15/2009	0	4.2	0	0.251	0.374288194	0.161		0.12	4.672708333
5/16/2009	0	0	0	0.134	0.354996528	0.145		0.033	3.541104167
5/17/2009	0	0	0	0.117	0.384579861	0.137		0.015	3.235041667
5/18/2009	0	0	0	0.11	0.409121528	0.137		0	3.2906875
5/19/2009	0	0	0	0.099	0.417284722	0.121		0	3.18925
5/20/2009	0	0	0	0.089	0.418083333	0.099		0	3.156180556

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5/21/2009	0	0	0	0.089	0.472583333	0.085		0	3.146583333
5/22/2009	0	0	0	0.084	0.494545139	0.086		0	3.063611111
5/23/2009	0	0	0	0.074	0.549284722	0.078		0	2.842833333
5/24/2009		0	0	0.065	0.566215278	0.078		0	2.727159722
5/25/2009	0	0	0	0.064	0.576805556	0.077		0	2.875743056
5/26/2009	0	0	0	0.063	0.640107639	0.074		0	2.932361111
5/27/2009	0	0	0	0.061	0.625881944	0.069		0	2.815270833
5/28/2009	0	0	0	0.057	0.61234375	0.063		0	2.711409722
5/29/2009	0	0	0	0.056	0.658986111	0.056		0	2.603034722
5/30/2009	0	0	0	0.057	0.668677083	0.053		0	2.436979167
5/31/2009	0.1	0	4.4	0.112	0.646423611	0.059		0	3.020013889
6/1/2009	0	0	0	0.127	0.609836806	0.055		0	3.863114583
6/2/2009	0	0	0	0.08	0.545541667	0.065		0	2.945555556
6/3/2009	0	0	0	0.067	0.549923611	0.115		0	2.882222222
6/4/2009	0	0	0.2	0.064	0.540458333	0.126		0	2.782027778
6/5/2009	2.4	0.2	1.6	0.116	0.518424	0.144		0	3.180715278
6/6/2009	2.9	2.3	0.1	0.133	0.400416667	0.138		0	3.935604167
6/7/2009	0	0	0	0.072	0.247454861	0.065		0	2.840347222
6/8/2009	0	0	0	0.062	0.270239583	0.067		0	2.826409722
6/9/2009	0	0	0	0.059	0.308392361	0.055		0	2.749444444
6/10/2009	0	0	0	0.057	0.333211806	0.054		0	2.722458333
6/11/2009	0	0	0	0.055	0.341243056	0.053		0	2.660208333
6/12/2009	0	0	0	0.033	0.340833333	0.055		0	2.596333333
6/13/2009	0	0	0	0.034	0.363510417	0.052		0	2.347909722
6/14/2009	0	0	0	0.037	0.374163194	0.05		0	2.186013889
6/15/2009		0	0	0.039	0.385545455	0.05		0	2.2895625
6/16/2009	0	0	0	0.042	0.385	0.049		0	2.295208333
6/17/2009	0	0	0	0.041	0.360590278	0.049		0	2.256409722
6/18/2009	0	0	0	0.04	0.3715625	0.049		0	2.195097222
6/19/2009	0.4	0.3	0	0.042	0.361569444	0.048		0	2.133618056
6/20/2009	0.6	0.5	0	0.051	0.368277778	0.049		0	1.424194444
6/21/2009	0	0	0	0.067	0.350694444	0.05		0	1.042305556
6/22/2009	0	0	0	0.052	0.357409722	0.049		0	1.5795625
6/23/2009	0	0	0	0.043	0.356315972	0.049		0	2.404263889
6/24/2009	0	0	0	0.04	0.339857639	0.049		0	2.30875
6/25/2009	0.5	0	0.4	0.039	0.328611111	0.047		0	2.506444444
6/26/2009	0	0	0	0.037	0.322649306	0.047		0	2.771604167
6/27/2009	0	0	0	0.033	0.340354167	0.046		0	2.410756944
6/28/2009	0	0	0	0.036	0.319666667	0.045		0	2.1600625
6/29/2009	0	0	0	0.04	0.297256944	0.043		0	2.302652778
6/30/2009	0	0	0	0.081	0.290621528	0.042		0	2.360173611
7/1/2009	0	0	0	0.119	0.282149306	0.041		0	2.689159722
7/2/2009	0	0	0	0.045	0.267444444	0.04		0	2.793208333
7/3/2009	0	0	0	0.036	0.278288194	0.039		0	2.754909722
7/4/2009	0	0	0	0.032	0.239975694	0.038		0	2.718263889
7/5/2009	0	0	0	0.07	0.2310625	0.063		0	2.722597222
7/6/2009	0	0	0	0.144	0.205107639	0.052		0	3.446756944
7/7/2009	0.8	0	1.8	0.187	0.229586806	0.087		0	3.618930556
7/8/2009	0.2	0	0	0.074	0.135659722	0.066		0	3.459416667
7/9/2009	42.3	40.1	11.5	0.061	0.1185625	0.057		0.007	4.983243056
7/10/2009		0	0	0.059	0.121822917	0.057		0	2.489055556
7/11/2009	0	0	0	0.056	0.117479167	0.053		0	2.632430556
7/12/2009	0	0	0	0.053	0.124947917	0.051		0	2.743326389

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7/13/2009	0	0	0	0.049	0.127697917	0.049		0	2.996784722
7/14/2009		0	0	0.043	0.1245625	0.043		0	3.1439375
7/15/2009	0	0	0	0.044	0.127145833	0.04		0	3.155638889
7/16/2009		0	0	0.044	0.12453125	0.039		0	3.095715278
7/17/2009	0.1	0	0	0.041	0.117572917	0.04		0	3.123777778
7/18/2009	0	0	0	0.045	0.102506944	0.042		0	2.8745
7/19/2009	0	0	0	0.043	0.091607639	0.042		0	2.630805556
7/20/2009	0	0	0	0.041	0.093798611	0.04		0	2.892736111
7/21/2009	1.6	0.4	1.8	0.039	0.099583333	0.04		0	2.933583333
7/22/2009	0	0		0.043	0.108482639	0.039		0	3.685892361
7/23/2009	0	0	0	0.039	0.110145833	0.037		0	3.013590278
7/24/2009	0	0	0	0.033	0.102697917	0.036		0	2.937277778
7/25/2009	0	0	0	0.036	0.090298611	0.038		0	2.736965278
7/26/2009	0	0	0	0.035	0.0885625	0.038		0	2.527013889
7/27/2009	0	0	0	0.032	0.077805556	0.038		0	2.757423611
7/28/2009	0	0	0	0.03	0.078729167	0.038		0	2.848354167
7/29/2009	0	0	0	0.017	0.090027778	0.038		0	2.848152778
7/30/2009	0	0	0	0.006	0.08278125	0.037		0	2.834680556
7/31/2009	0	0	0	0.006	0.078454861	0.038		0	2.807041667
8/1/2009		0	0	0.006	0.068638889	0.038		0	2.649951389
8/2/2009	0	0	0	0.006	0.073909722	0.038		0	2.455895833
8/3/2009	0	0	0	0.007	0.061659722	0.039		0	2.478993056
8/4/2009	0	0	0	0.008	0.062517361	0.038		0	2.492756944
8/5/2009	0	0	0	0.008	0.071520833	0.036		0	2.465361111
8/6/2009	0	0	0	0.008	0.070322917	0.036		0	2.420694444
8/7/2009	0	0	0	0.008	0.069065972	0.035		0	2.452555556
8/8/2009	0	0	0	0.008	0.070753472	0.036		0	2.309138889
8/9/2009		0		0.043	0.305711806	0.15		0.969	4.073354167
8/10/2009	0	0		0.029	0.097704861	0.12		0.066	2.811715278
8/11/2009	0	0		0.009	0.040454861	0.057		0	1.951444444
8/12/2009	0	0		0.007	0.043642361	0.049		0	1.876409722
8/13/2009	0	0		0.003	0.039072917	0.049		0	2.466652778
8/14/2009	0	0		0.002	0.040350694	0.048		0	2.435659722
8/15/2009	0	0		0.002	0.039298611	0.047		0	2.374333333
8/16/2009	0	0		0.003	0.038861111	0.046		0	2.279715278
8/17/2009	0	0		0.003	0.038322917	0.054		0	2.383923611
8/18/2009	0	0		0.002	0.037215278	0.087		0	2.361375
8/19/2009	0	0		0.002	0.036055556	0.048		0	2.322881944
8/20/2009	0	0		0.003	0.033895833	0.047		0	2.335222222
8/21/2009	0	0		0.003	0.031899306	0.045		0	2.298347222
8/22/2009	0	0		0.006	0.030204861	0.043		0	2.280895833
8/23/2009	0	0		0.006	0.032746528	0.04		0	2.2606875
8/24/2009	0	0	0	0.008	0.03178125	0.038		0	2.374444444
8/25/2009	0.4	0.1	0.1	0.009	0.029190972	0.038		0	2.467222222
8/26/2009		0	0	0.007	0.029416667	0.037		0	2.522402778
8/27/2009	0	0	0	0.006	0.032006944	0.037		0	2.508069444
8/28/2009	0	0	0	0.005	0.034017361	0.036		0	2.491423611
8/29/2009		3.9	0	0.005	0.032267361	0.035		0	2.365222222
8/30/2009	0	0	0	0.005	0.029923611	0.035		0	2.348715278
8/31/2009		22.7	0	0.003	0.028809028	0.035		0	2.501819444
9/1/2009	0.3	0	0.6	0.005	0.030986111	0.035		0	2.576506944
9/2/2009	0	0	0	0.006	0.030725694	0.034		0	2.746875
9/3/2009	0	0	0	0.006	0.035302083	0.034		0	2.367618056

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9/4/2009		1.6	0	0.006	0.035729167	0.033		0	2.106604167
9/5/2009	0	0	0	0.006	0.032850694	0.033		0	1.970388889
9/6/2009	0	0	0	0.005	0.030763889	0.033		0	1.9133125
9/7/2009	0	0	0	0.004	0.029864583	0.032			1.995854167
9/8/2009	0	0	0	0.003	0.034236111	0.032			2.039298611
9/9/2009	0	0	0	0.004	0.031392361	0.032			2.0523125
9/10/2009	0	0	0	0.004	0.035138889	0.031			2.027097222
9/11/2009	0	0	0	0.004	0.031569444	0.03			1.934256944
9/12/2009	0	0	0	0.005	0.03140625	0.03			1.892569444
9/13/2009	2.5	0	5.8	0.006	0.050715278	0.029			2.025270833
9/14/2009	3.6	36.9	32.5	0.011	0.096756944	0.065			14.92516666
9/15/2009	0.3	0.4	0	0.224	0.440989583	0.063			7.912138892
9/16/2009	0	0	0	0.018	0.069864583	0.061			2.416222224
9/17/2009	11.9	0.8		0.032	0.0795	0.073			5.64447222
9/18/2009	0.9	1	0.2	0.244	0.299190972	0.14			10.10704166
9/19/2009	0	0	0	0.025	0.092371528	0.075			4.378583336
9/20/2009	7.7	10.3		0.169	0.304173611	0.101			13.82972222
9/21/2009	2	0.5	0.4	0.387	0.2441875	0.107			9.110104165
9/22/2009	0	0	0	0.027	0.116607639	0.072			4.90805556
9/23/2009	0	0	0	0.02	0.117364583	0.055			3.175138888
9/24/2009	0	0	0	0.016	0.134565972	0.053			2.921833336
9/25/2009	0	0	0	0.015	0.134246528	0.053			2.859416664
9/26/2009	0	0	0	0.015	0.131447917	0.052			2.693861112
9/27/2009	0	0	0	0.015	0.145888889	0.051			2.391083328
9/28/2009	0	0	0	0.014	0.175197917	0.048			2.459277776
9/29/2009	0.1	0.1	0.3	0.022	0.208954861	0.044		0	2.65157265
9/30/2009			0.1	0.028	0.218746528	0.041		0	2.588395833
10/1/2009	2.9	1.6	2.8	0.034	0.193121528	0.038		0	3.094045139
10/2/2009	0	0	0	0.054	0.182131944	0.051		0	2.976583333
10/3/2009	0	0	0	0.048	0.148246528	0.048		0	2.523784722
10/4/2009	0	0	0	0.047	0.112135417	0.046		0	2.345368056
10/5/2009	0	0	0	0.045	0.140368056	0.041		0	2.492944444
10/6/2009	0	0	0	0.044	0.134104167	0.035		0	2.47525
10/7/2009		0	0	0.04	0.142871528	0.033		0	2.478145833
10/8/2009	0	6.2	0	0.037	0.160788194	0.031		0	2.494
10/9/2009	0	0	0	0.037	0.150857639	0.03		0	2.476166667
10/10/2009	0	0	0	0.037	0.153347222	0.035		0	2.360569444
10/11/2009	0	0	0	0.038	0.126822917	0.045		0	2.215131944
10/12/2009	0	0	0	0.035	0.13375	0.037		0	2.208604167
10/13/2009	0	0	0	0.028	0.141833333	0.017		0	2.329326389
10/14/2009	0	0	0	0.028	0.136253472	0.007		0	2.385833333
10/15/2009	1.8	0	0.1	0.028	0.124295139	0.007		0	2.489743056
10/16/2009	0	0	0	0.028	0.110875	0.009		0	2.530798611
10/17/2009	0	0	0	0.03	0.075534722	0.013		0	2.424416667
10/18/2009	0	0	0	0.03	0.076149306	0.021		0	2.289743056
10/19/2009	6	0.7	16.9	0.032	0.081260417	0.028		0	2.424708333
10/20/2009	12.8	6.9	17.4	0.177	0.19546875	0.077		0.162	5.010927083
10/21/2009	7.3	9.5	7.6	2.429	0.611024306	0.279		1.05	13.66550347
10/22/2009	73	35.7	38.3	0.894	0.240208333	0.247		1.3	7.573309859
10/23/2009	0	0	0	0.808	0.16396875	0.164		0.158	7.2
10/24/2009	0	0	0	0.206	0.066442509	0.142		0.014	7.04700348
10/25/2009		0	0	0.103	0.056739583	0.132		0	5.130885415
10/26/2009		0	0	0.08	0.044381944	0.121		0	4.4335627

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
10/27/2009	0	0	0.1	0.066	0.0263125	0.104		0	3.789809025
10/28/2009	0	0	0	0.046	0.038232639	0.102		0	3.434659722
10/29/2009	0	0	0	0.032	0.027663194	0.11		0	2.370916667
10/30/2009	0	16	0	0.03	0.028388889	0.104		0	2.299222222
10/31/2009	0		0	0.028	0.024690972	0.097		0	2.208784722
11/1/2009	0	0	0.2	0.028	0.021340278	0.093		0	2.115541667
11/2/2009	0	15.3	0	0.03	0.022444444	0.088		0	2.188375
11/3/2009	0	14.8	0	0.028	0.022253472	0.083		0	2.211111111
11/4/2009	0	15.4	0	0.03	0.010121528	0.081		0	2.248458333
11/5/2009	0	12.4	0	0.029	0.011930556	0.081		0	2.220229167
11/6/2009	0	10.2	0	0.029		0.082		0	2.479152778
11/7/2009	0			0.027		0.084		0	2.9775
11/8/2009	0	10.6	0	0.027		0.09		0	2.668694444
11/9/2009	0	10.1	0	0.042		0.087		0	2.697298611
11/10/2009	0	8.9	0.2	0.05		0.089		0	2.759854167
11/11/2009			0	0.05		0.088		0	2.746111111
11/12/2009	0	12.1	0	0.05		0.084		0	2.744083333
11/13/2009	0	11.8	0	0.05	0.024704861	0.081		0	2.736513889
11/14/2009	0		0	0.05	0.017142361	0.082		0	2.665243056
11/15/2009	0		0	0.05	0.017052083	0.083		0	2.518215278
11/16/2009	0		0	0.053	0.017277778	0.08		0	2.624118056
11/17/2009	0	14.1	0	0.054	0.020770833	0.076		0	2.633701389
11/18/2009	0		0	0.055		0.076		0	2.719666667
11/19/2009	0		0	0.056	0.015381944	0.077		0	2.6943125
11/20/2009	0		0	0.056	0.011211806	0.077		0	2.683159722
11/21/2009			0.1	0.059	0.010048611	0.077		0	2.579972222
11/22/2009	0.3	14.7	0	0.059	0.006048611	0.076		0	2.386458333
11/23/2009	0	12.7	0	0.056	0.008506944	0.075		0	2.4025625
11/24/2009	0	11.9	0	0.056	0.006236111	0.075		0	2.551868056
11/25/2009	0	10.8	0	0.059	0.017472222	0.073		0	2.622527778
11/26/2009	0.1	12.2	0	0.059	0.021371528	0.072		0	2.6258125
11/27/2009	0	13.9	0.1	0.058	0.021131944	0.072		0	2.720354167
11/28/2009	0	11.5	0	0.061	0.014545139	0.078		0	2.558618056
11/29/2009	4.4	3.8	7.7	0.061	0.018298611	0.096		0.018	4.998729167
11/30/2009	0	0	0	0.071	0.014645833	0.085		0	3.376211806
12/1/2009	0	0	0	0.066	0.022069444	0.085		0	2.795506944
12/2/2009		0	0	0.066	0.016885417	0.081		0	2.792847222
12/3/2009	0	0	0	0.066	0.0170625	0.08		0	2.754951389
12/4/2009	0	0	0	0.066	0.015121528	0.082		0	2.796611111
12/5/2009	0	0	0	0.066	0.014868056	0.083		0	2.596819444
12/6/2009	0	0	0	0.066	0.01375	0.083		0	2.412520833
12/7/2009	0	0	0	0.066	0.017076389	0.079		0	2.422729167
12/8/2009	0	0	0	0.066	0.017743056	0.076		0	2.436986111
12/9/2009	0	0	0	0.068	0.014690972	0.076		0	2.5824375
12/10/2009	0	0	0	0.072	0.020444444	0.077		0	2.665326389
12/11/2009	0	0	0	0.072	0.018927083	0.078		0	2.715847222
12/12/2009		0	0	0.077	0.017659722	0.08		0	2.655819444
12/13/2009		0	0	0.079	0.005784722	0.082		0	2.519645833
12/14/2009	16.2	9.3	2.3	0.083	0.008097222	0.081		0	2.791520833
12/15/2009	0	0	0	0.081	0.015635417	0.08		0	3.619465278
12/16/2009	0	0	0	0.079	0.009204861	0.079		0	2.856486111
12/17/2009		0	0	0.083	0.010177083	0.076		0	2.8266875
12/18/2009	0	0	0	0.079	0.007277778	0.08		0	2.841256944

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12/19/2009	0	0	0	0.079	0.003454861	0.081		0	2.804715278
12/20/2009		0	0.4	0.08	0	0.089		0	2.689034722
12/21/2009	5	5	9.9	0.103	0.005618056	0.112		0.041	5.891743056
12/22/2009	5.1	3.9	10.4	0.436	0.053076389	0.182		0.279	8.18225
12/23/2009	6.9	7.4	5.3	0.422	0.097510417	0.176		0.078	6.543020833
12/24/2009	6.6	5.6	8.4	0.813	0.132229167	0.233		0.283	8.833684028
12/25/2009	0.8	0	0.3	0.739	0.080267361	0.196		0.023	5.687822917
12/26/2009	3.6	2.2	3.8	0.266	0.034295139	0.19		0	3.933635417
12/27/2009	1.4	0.7	0.4	0.188	0.033854167	0.19		0.011	4.379493056
12/28/2009	0	0	0	0.151	0.030090278	0.175		0	3.469541667
12/29/2009	0.2	0.4	0	0.139	0.036104167	0.163		0	3.231534722
12/30/2009	0.1	0	0	0.129	0.035923611	0.152		0	3.097375
12/31/2009		0	0	0.125	0.026972222	0.146		0	3.229125
1/1/2010	0	10		0.111	0.031461806	0.136		0	2.882520833
1/2/2010	2.4	0		0.094	0.014194444	0.125		0	2.7895
1/3/2010	0.2	0.1		0.088	0.015149306	0.118		0	2.778340278
1/4/2010	14.5	15		0.085	0.015913194	0.114		0.002	3.242413194
1/5/2010	3.9	2.2		0.158	0.047388889	0.177		0.125	8.067385417
1/6/2010	0	0		0.2	0.04109375	0.152		0.042	4.424597222
1/7/2010	12.4	8.8		0.193	0.046461268	0.183		0.235	8.932222222
1/8/2010	0.1	0		0.31	0.024926829	0.165		0.123	6.424038194
1/9/2010	0	0		0.208	0.01776087	0.155		0.018	3.82125
1/10/2010	0	0		0.171		0.15		0.011	3.420868056
1/11/2010	0	0		0.161		0.142		0.01	3.460354167
1/12/2010	4	4.5		0.154	0.017729167	0.138		0.016	3.925597222
1/13/2010	2.3	1.7		0.197	0.030659722	0.143		0.035	4.596555556
1/14/2010		0.1		0.356	0.078732639	0.184		0.096	5.883166667
1/15/2010	0			0.298	0.054868056	0.164		0.018	3.696756944
1/16/2010	2.1			0.208	0.040940972	0.181		0.01	3.366069444
1/17/2010	2.9			0.174	0.040086806	0.184		0.008	3.153743056
1/18/2010	5.9			0.166	0.043555556	0.18		0.008	3.527083333
1/19/2010	1.4	0.8		0.166	0.044451389	0.179		0.013	3.925256944
1/20/2010		0		0.161	0.042420139	0.166		0.007	3.355354167
1/21/2010	0	0		0.159	0.039743056	0.157		0.001	3.168125
1/22/2010	0			0.153	0.033850694	0.152		0.001	3.081
1/23/2010	0	0		0.156	0.033048611	0.148		0.002	2.993013889
1/24/2010	2.5	1.3		0.149	0.036423611	0.142		0.001	2.820597222
1/25/2010	7.3	2.7		0.155	0.048392361	0.158		0.058	5.032659722
1/26/2010	0	0		0.194	0.054538194	0.152		0.04	3.551805556
1/27/2010		0		0.135	0.03171875	0.145		0.01	3.164305556
1/28/2010	0	0		0.129	0.0269375	0.139		0.007	3.067722222
1/29/2010	0	0		0.116	0.032427083	0.135		0.01	3.061180556
1/30/2010	0	0	0	0.113	0.033756944	0.133		0.012	3.006527778
1/31/2010	0.5	0.1	0	0.104	0.029083333	0.135		0.014	2.839708333
2/1/2010	0	0	0	0.093	0.024878472	0.129		0.023	2.895066202
2/2/2010	0	0	0	0.091	0.02634375	0.124		0.016	2.696402778
2/3/2010	0	0	0	0.089	0.029326389	0.123		0.012	2.630166667
2/4/2010	7.8	7.6	9.7	0.105	0.034315972	0.156		0.385	5.597121528
2/5/2010	0	0	0	0.213	0.085177083	0.143	0.33996875	0.095	3.923298611
2/6/2010	0	0	0	0.157	0.055263889	0.131	0.224861111	0.024	2.836451389
2/7/2010	0	0	0	0.141	0.053034722	0.127	0.202649306	0.018	2.510694444
2/8/2010	28	38.7	25.8	0.17	0.093527778	0.171	0.489114583	0.368	7.419798611
2/9/2010	10.1	6.4	7.1	1.35	0.475625	0.311	1.835434028	0.969	17.13189236

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2/10/2010	0	0	0	1.295	0.421961806	0.266	0.704486111	0.127	7.0558125
2/11/2010	0	0	0	0.647	0.23890625	0.249	0.472586806	0.056	5.218152778
2/12/2010	0	0	0	0.4	0.217447917	0.235	0.39971875	0.044	4.535381944
2/13/2010	0.3	8.3	0	0.279	0.224475694	0.226	0.351059028	0.041	3.973597222
2/14/2010		0	0	0.205	0.207461806	0.217	0.314038194	0.038	3.622701389
2/15/2010	13.3	6.9	12	0.182	0.189010417	0.211	0.320715278	0.044	4.068211806
2/16/2010	2.2	0.8	2	0.199	0.273274306	0.22	0.534055556	0.235	7.586336806
2/17/2010	0.5	0	0	0.212	0.30428125	0.201	0.369548611	0.046	4.311059028
2/18/2010	17	15.4	20.5	0.192	0.285583333	0.19	0.323826389	0.05	3.976663194
2/19/2010	13.8	22.3	9	3.176	1.180545139	0.412	1.629065972	1.046	17.03961806
2/20/2010	0	0	0	2.776	1.329552083	0.456	2.329927083	0.783	14.99664236
2/21/2010	2.8	1.3	2.8	1.648	0.860399306	0.358	0.88171875	0.336	8.890694444
2/22/2010		0	0.1	1.349	0.764975694	0.303	0.709305556	0.221	6.873965278
2/23/2010	0	0	0	1.079	0.678486111	0.269	0.620503472	0.16	6.012201389
2/24/2010	0	0	0	0.792	0.620628472	0.246		0.121	5.423729167
2/25/2010		0	0	0.603	0.55159375	0.234	0.543979167	0.083	4.958420139
2/26/2010	0	0	0	0.463	0.526170139	0.222	0.441420139	0.057	4.601322917
2/27/2010	0.1	0	0.6	0.395	0.454947917	0.211	0.419520833	0.05	4.261416667
2/28/2010	0	0	0	0.352	0.468138889	0.206	0.3921875	0.05	3.929284722
3/1/2010	0	0	0	0.338	0.4194375	0.2	0.379784722	0.044	3.852833333
3/2/2010	1	0.4	1.5	0.341	0.407083333	0.195	0.379788194	0.043	3.720770833
3/3/2010	14.2	12.1	11.8	0.447	0.520784722	0.22	0.640788194	0.34	7.812579861
3/4/2010	0	0.1	0	0.486	0.539975694	0.213	0.560190972	0.112	4.830472222
3/5/2010		0.1	0.1	0.464	0.477434028	0.236	1.156399306	0.232	6.762940972
3/6/2010	0	0	0	0.413	0.429729167	0.198	0.576545139	0.069	4.228174216
3/7/2010	19.9	13.8	22.7	0.378	0.404708333	0.197	0.494822917	0.068	4.363368056
3/8/2010	28.2	16.1		0.759		0.308	1.824072917	1.259	18.28472569
3/9/2010	0	0	0	0.899		0.251	1.902701389	0.453	11.63255208
3/10/2010		0	0	0.877	0.687038194	0.225	1.290006944	0.217	6.808111111
3/11/2010		0	0	0.758	0.669211806	0.214	0.968065972	0.163	5.812736111
3/12/2010	0.3	0	0	0.776	0.751621528	0.215	0.84059375	0.147	5.472034722
3/13/2010	0	0	0	0.768	0.817454861	0.216	0.750489583	0.131	5.235239583
3/14/2010	0	0	0	0.896	0.954854167	0.227	0.679611111	0.12	5.061425087
3/15/2010	0	0	0	1.154	1.0571875	0.24	0.685729167	0.121	5.311309028
3/16/2010	0	0	0	1.443	1.085131944	0.251	0.675913194	0.124	5.52109375
3/17/2010	0	0	0	1.404	1.053402778	0.26	0.655763889	0.122	5.527440972
3/18/2010	0	0	0	1.351	0.977326389	0.263	0.640225694	0.12	5.495197917
3/19/2010		0	0	1.318	0.961163194	0.26	0.620621528	0.106	5.37653125
3/20/2010	0	0	0	1.205	0.9583125	0.257	0.578559028	0.095	5.207819444
3/21/2010	11.3	13.6	10.2	0.949	0.922871528	0.249	0.543142361	0.085	4.918517361
3/22/2010	1.5	1.4	0.7	1.43	1.114378472	0.274	1.014958333	0.58	9.525795139
3/23/2010	0	0	0	1.177	0.973458333	0.247	0.623697917	0.138	5.414225694
3/24/2010		0	0.6	1.042	0.910878472	0.242	0.584368056	0.103	5.0115625
3/25/2010	0	0	0	0.934	0.903416667	0.236	0.585107639	0.111	4.906728223
3/26/2010	0	0	0	0.922	0.89528125	0.227	0.535888889	0.071	4.663347222
3/27/2010	0	0	0	0.86	0.841090278	0.219	0.495305556	0.054	4.313333333
3/28/2010	0	0	0	0.748	0.805475694	0.214	0.462309028	0.043	3.974055556
3/29/2010	0.5	0.2	2.3	0.686	0.81075	0.212	0.472684028	0.044	4.007222222
3/30/2010	0		0	0.743	0.810145833	0.209	0.492604167	0.094	4.455083333
3/31/2010	0	0	0	0.592	0.720416667	0.197	0.453138889	0.053	3.929284722
4/1/2010	0	0	0	0.837	0.673065972	0.236	0.58253125	0.044	4.336038194
4/2/2010	0	10.4	0	0.72	0.651576389	0.212	0.637715278	0.048	4.0575625
4/3/2010	7.2	11		0.592	0.637496528	0.195	0.538100694	0.045	3.550694444

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
4/4/2010	4.3	8.2	9	0.941	0.693909722	0.255	1.309635417	0.658	9.435850694
4/5/2010	0	0	0	0.759	0.541479167	0.204	0.710902778	0.172	4.501090278
4/6/2010		0	0	0.671	0.437055556	0.196	0.617774306	0.064	4.536326389
4/7/2010		0.6	0.4	0.635	0.44665625	0.194	0.60390625	0.05	4.874017361
4/8/2010		0	0	0.6	0.432291667	0.193	0.591190972	0.051	4.751201389
4/9/2010	0	12.2	0	0.525	0.499079861	0.186	0.526847222	0.038	4.553354167
4/10/2010	0	0	0	0.471	0.464982639	0.184	0.488149306	0.032	4.370097222
4/11/2010	0	13.7	0	0.451	0.456704861	0.18	0.469628472	0.029	4.160138889
4/12/2010	3	10.3	3.5	0.448	0.419270833	0.191	0.572461806	0.062	5.242293269
4/13/2010	0.1	10.3	0	0.407	0.429086806	0.185	0.572315972	0.081	4.923190972
4/14/2010			0.1	0.347	0.4068125	0.169	0.472440972	0.045	4.452597222
4/15/2010	0.3	10.5	0	0.303	0.421520833	0.167	0.446666667	0.033	4.416715278
4/16/2010	0.1	13	0	0.291	0.424149306	0.163	0.429701389	0.031	4.314827839
4/17/2010		11.6	0	0.253	0.376347222	0.156	0.393527778	0.018	4.085173611
4/18/2010		12.8	0	0.239	0.353003472	0.152	0.375868056	0.013	3.806933333
4/19/2010	7.2	13.1	4.9	0.275	0.506684028	0.159	0.382465278	0.029	5.7980875
4/20/2010	0	13	0	0.344	0.308024306	0.166	0.367385417	0.073	4.371229167
4/21/2010	0	12.6	0	0.262	0.285829861	0.14	0.352003472	0.025	3.987375
4/22/2010	0.5	14.4	0.2	0.254		0.14	0.361533101	0.019	3.798304348
4/23/2010		14.8	0	0.234	0.248159722	0.142	0.383184028	0.016	3.781350785
4/24/2010	0		0	0.213	0.237177083	0.139	0.323795139	0.012	3.472527778
4/25/2010	0		0	0.201	0.297128472	0.134	0.302940972	0.004	3.12244186
4/26/2010	0		0	0.193	0.338826389	0.167	0.3420625	0	3.32061
4/27/2010	0	1.9	0	0.223	0.379444444	0.171	0.376621528	0	4.012725694
4/28/2010	0	15	0	0.19	0.442479167	0.139	0.3103125	0	3.381465278
4/29/2010	0		0	0.177	0.471854167	0.132	0.27184375	0	3.306520833
4/30/2010	1.4		0	0.169	0.539854167	0.123	0.267836806	0	3.162923611
5/1/2010	3.9		16.2	0.219	0.596774306	0.121	0.255760417	0	3.178475694
5/2/2010	29.1		24.7	0.374	1.072350694	0.157	0.67415625	0.239	6.762204861
5/3/2010	52.1	2.8	43.4	4.587	5.994913194	0.449	2.273434028	4.9	23.92996875
5/4/2010	10.9	7	7.6	12.663	13.24716319	0.68	3.509784722	1.809	26.12410069
5/5/2010	1.1	4.2	0.8	6.5	8.353947917	0.573	1.910253472	1.187	19.73517361
5/6/2010	0	0	0	2.052	5.487996528	0.5	1.487177083	0.643	14.90068403
5/7/2010	11.9	6.4	9.3	1.7	4.213347222	0.446	1.130204861	0.403	11.64738194
5/8/2010	0			1.661	3.707402778	0.417	1.708916667	0.588	14.01867361
5/9/2010	0.6			1.638	3.167222222	0.364	1.081489583	0.316	9.297756944
5/10/2010	0			1.618	2.839774306	0.301	0.940795139	0.267	8.407873563
5/11/2010	2.2			1.584	2.523472222	0.272	0.827986111	0.193	7.415541667
5/12/2010	5.6	0.4	16.8	1.49	2.97153125	0.28	1.061947917	0.451	12.07406316
5/13/2010	27.4		5.8	4.383	2.732371528	0.362	0.945017857	0.404	9.718090278
5/14/2010	8.9		3	3.359	2.996416667	0.491	1.775614583	1.075	18.44532031
5/15/2010	0.3	0.7	0.4	1.957	3.355222222	0.441	1.440722222	0.423	12.36468056
5/16/2010	0	0	0	1.676	2.887097222	0.392	1.485836806	0.291	9.723940972
5/17/2010	0	0	0	1.645	2.765743056	0.336	1.301888889	0.222	8.405619718
5/18/2010	0	0	0	1.613		0.29	1.116694444	0.192	7.757666667
5/19/2010	0	0	0	1.499	0.897253472	0.272	0.950520833	0.185	7.179833333
5/20/2010	0	0	0	1.197	0.892444444	0.251	0.826819444	0.203	6.422104167
5/21/2010	0	0	0	1.079	0.909677083	0.24	0.738545139	0.156	5.910159722
5/22/2010	0	0.3		0.94	0.890732639	0.225	0.6694375	0.117	5.439204861
5/23/2010	0	0	0	0.85	0.963663194	0.22	0.633881944	0.056	5.026322917
5/24/2010	0	0	0	0.745	0.938538194	0.214	0.596121528	0.035	4.911322917
5/25/2010	0	0	0	0.685	0.924673611	0.193	0.562819444	0.031	4.731139286
5/26/2010	0	0	0	0.656	0.988420139	0.187	0.526645833	0.03	4.599263889

Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
5/27/2010	0.1	0.1	0.8	0.485	1.077538194	0.188	0.511957295	0.022	4.584694444
5/28/2010		0		0.743	1.878736111	0.236	0.747934028	0.02	5.4159375
5/29/2010	0	0		0.496	2.644569444	0.246	0.596524306	0.036	4.137677083
5/30/2010	0	0	0	0.389	2.419916667	0.215	0.476399306	0.026	4.347729167
5/31/2010	0	0	0	0.382	2.422715278	0.201	0.460496528	0.011	4.407027778
6/1/2010	0	0	0	0.339	2.496913194	0.191	0.462364583	0.032	4.403898182
6/2/2010	0	0	0	0.323	2.509118056	0.19	0.4304375	0.008	4.307465278
6/3/2010	0	0	0	0.305		0.179	0.410184028	0.007	4.181347222
6/4/2010	0	0	0	0.271		0.169	0.372513889	0.003	3.977423611
6/5/2010	0.7	0	0.2	0.251	0.891131944	0.169	0.352145833	0	3.804513889
6/6/2010	5.4	1.5	7	0.257	0.839482639	0.179	0.391309028	0.027	4.563347222
6/7/2010	0	0	0	0.262		0.176	0.3618125	0.016	3.572111111
6/8/2010		0	0	0.249		0.163	0.3720625	0	4.087310078
6/9/2010	18.5			0.545		0.205	0.454378472	0.122	8.267552083
6/10/2010	1			0.594	0.411489583	0.224	0.520013889	0.135	7.564899306
6/11/2010	3.6		2	0.579	0.471229167	0.235	0.527979167	0.267	7.107019305
6/12/2010	0	0	0	0.369	0.397631944	0.218	0.4355625	0.099	4.713864583
6/13/2010	0	0	0	0.316	0.311309028	0.195	0.367611111	0.034	3.886340278
6/14/2010	5.9	4.4	9	0.286	0.462190972	0.175	0.352291667	0.019	3.908288194
6/15/2010	0	0.1	0	0.775	0.735336806	0.227	0.421395833	0.231	6.859104167
6/16/2010	0	0	0.8	0.343	0.399475694	0.195	0.336357639	0.051	4.368381944
6/17/2010	0	0	0	0.289	0.409416667	0.176	0.27690625	0.032	4.005659722
6/18/2010	0	0	0	0.4	0.3978125	0.171	0.296989583	0.012	3.740368056
6/19/2010	0.6	0.8	13.9	0.745	0.509625	0.23	0.504888889	0.011	5.781458333
6/20/2010	0	0	0	0.34	0.499579861	0.199	0.370666667	0.032	4.063131944
6/21/2010	0	0	0	0.29	0.455013889	0.182	0.385510417	0.009	3.832104167
6/22/2010	0	0	0	0.267	0.456729167	0.167	0.343041667	0.005	3.495140794
6/23/2010	0	0	0	0.266	0.492052083	0.152	0.299909722	0.004	3.438966038
6/24/2010	0	0	0	0.23	0.515767361	0.144	0.290413194	0.001	3.031340278
6/25/2010	0	0	0	0.201	0.550184028	0.134	0.277496528	0	2.870493056
6/26/2010	0	0	0	0.193	0.657090278	0.125	0.27903125	0	2.449611111
6/27/2010	0	0	0	0.169	0.707684028	0.125	0.261472222	0	2.357263889
6/28/2010		0	0.3	0.513	0.757152778	0.119	0.300006944	0	2.455275
6/29/2010	0	0	0	0.312	0.613340278	0.115	0.262364583	0	2.87982659
6/30/2010	0	0	0	0.26	0.438625	0.118	0.257118056	0	2.888606557
7/1/2010	0	0	0	0.212	0.448256944	0.115	0.244989583	0	2.896615385
7/2/2010	0	0	0	0.193	0.45884375	0.104	0.228663194	0	2.785019355
7/3/2010	0	0	0	0.147	0.518847222	0.075	0.1520625	0	2.471458333
7/4/2010	0.5	0	1.1	0.51	0.556072917	0.085	0.139388889	0	2.637846154
7/5/2010	0		0	0.366	0.60140625	0.109	0.155677083	0	3.608258065
7/6/2010	0	0	0	0.194	0.559586806	0.088	0.132920139	0	3.500722222
7/7/2010	0	0	0	0.141	0.522079861	0.087	0.126916667	0	3.586598802
7/8/2010	0	0	0	0.128	0.511142361	0.09	0.127166667	0	3.299333333
7/9/2010	0.1	0	0	0.112	0.386489583	0.085	0.107458333	0	4.314285299
7/10/2010	0	0	0	0.107	0.233725694	0.08	0.092576389	0	3.921888173
7/11/2010	0	0	0	0.092	0.239236111	0.081	0.086364583	0	3.627089747
7/12/2010	0	0	0	0.087	0.249829861	0.082	0.0761875	0	3.736573498
7/13/2010	0	0	0	0.091	0.270642361	0.084	0.0635	0	3.677793295
7/14/2010	0	0	0	0.082	0.256522807	0.071	0.058798611	0	3.731936889
7/15/2010	0	0	0	0.075	0.221805556	0.067	0.059329861	0	3.82018197
7/16/2010	0	0	0	0.075	0.181263889	0.046	0.072395833	0	3.774563737
7/17/2010	0	0	0	0.071	0.166677083	0.029	0.05825	0	3.725056752
7/18/2010	0	0	0	0.066	0.143211806	0.023	0.062986111	0	3.53076801

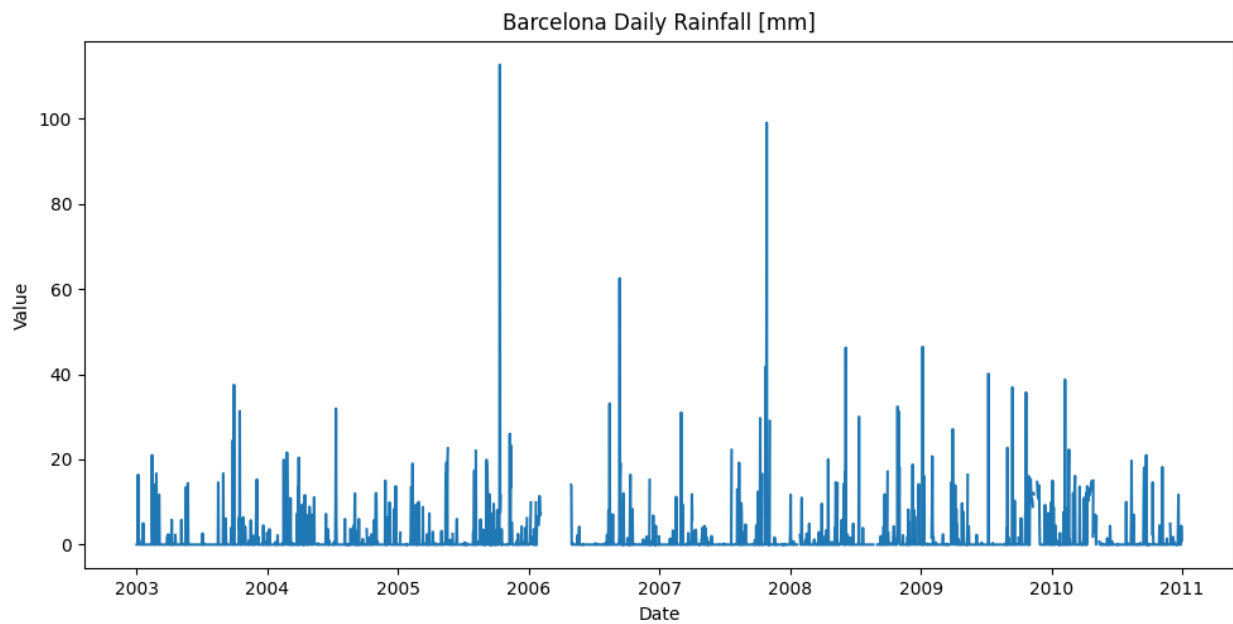
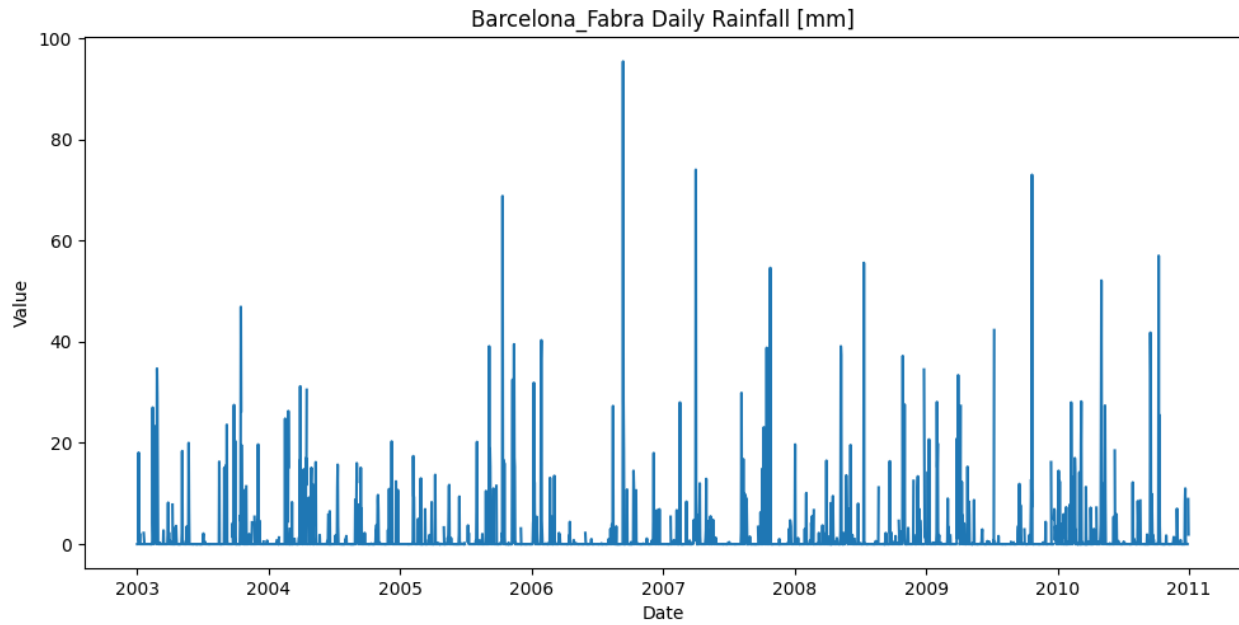
Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
7/19/2010	0	0	0	0.064	0.1255	0.023	0.075913194	0	3.979023151
7/20/2010	0	0	0	0.066	0.107736111	0.034	0.076725694	0	4.08994136
7/21/2010	0	0	0	0.065	0.08303125	0.049	0.091142361	0	4.180491138
7/22/2010		0	0.2	0.058	0.091923611	0.054	0.091388889	0	4.150128849
7/23/2010	0	0	0	0.061	0.070020833	0.057	0.101472222	0	4.181837255
7/24/2010	0	0	0	0.063	0.077805556	0.049	0.096888889	0	3.71354005
7/25/2010	0	0	0	0.056	0.071850694	0.04	0.070489583	0	3.437886319
7/26/2010	0	0	0	0.053	0.055416667	0.041	0.083857639	0	3.704799329
7/27/2010	0	0	0	0.055	0.047145833	0.043	0.073725694	0	3.925415188
7/28/2010	0	0	0	0.05	0.044295139	0.045	0.061854167	0	3.895155277
7/29/2010	12.2	10	32.9	0.421	0.045972222	0.104	0.386510417	0.482	6.325554226
7/30/2010	0.2	0	0	0.15	0.070899306	0.139	0.585878472	0.099	3.43
7/31/2010	0	0	0	0.084	0.03725	0.088	0.146072917	0	2.87
8/1/2010	0.2	0.4	1.6	0.059	0.023972222	0.077	0.134819444	0	3.111798917
8/2/2010	1	0.3	1.2	0.133	0.028482639	0.107	0.200652482	0	3.586536439
8/3/2010	0	0	0	0.767	0.020831633	0.143		0	6.998650346
8/4/2010	0	0	0	0.109	0.016639423	0.116		0	4.724619354
8/5/2010	0.4	0	2.2	0.087	0.014284722	0.088	0.122590278	0	4.215340483
8/6/2010	0	0	0	0.245	0.012809028	0.087	0.350861111	0.002	5.127256263
8/7/2010	0	0	0	0.1	0.013149306	0.089	0.150961806	0	3.827361258
8/8/2010	0	0	0	0.075	0.013451389	0.076	0.131197917	0	3.552904047
8/9/2010		0		0.067	0.045788194	0.063	0.129326389	0	2.926734715
8/10/2010	0	0		0.064	0.076520833	0.06	0.103802083	0	2.279333025
8/11/2010	0	0	0	0.064	0.077100694	0.068	0.099319444	0	2.305806562
8/12/2010	8.5	5.9		0.067	0.10875	0.096	0.129239583	0.012	4.374063446
8/13/2010	5.6	19.7		0.069	0.092430556	0.087	0.171336806	0.024	3.910371471
8/14/2010	0.2	0	0	0.069	0.08196875	0.097	0.521864583	0	4.532424542
8/15/2010	0	0	0	0.063	0.075243056	0.094	0.228614583	0	2.390761151
8/16/2010	0	0	0	0.049	0.071416667	0.083	0.155729167	0	2.168802309
8/17/2010	0	0	0	0.05	0.08465625	0.074	0.13428125	0	2.079510263
8/18/2010		0	0	0.049	0.088888889	0.071	0.131291667	0	2.088035624
8/19/2010	8.6	7	28	0.215	0.231496528	0.128	0.155243056	0.467	5.098090493
8/20/2010	0	0	0	0.314	0.255069444	0.125	0.34603125	0.211	6.085986752
8/21/2010	0	0	0	0.069	0.087833333	0.085	0.15190625	0	2.608980752
8/22/2010	0	0	0	0.047	0.087	0.07	0.114236111	0	2.136495644
8/23/2010	0	0	0	0.039	0.077524306	0.079	0.095672474	0	2.178823341
8/24/2010	0	0	0	0.041	0.084392361	0.078	0.072606061	0	2.2
8/25/2010	0	0	0	0.041	0.079419929	0.074	0.064288194	0	2.395135135
8/26/2010	0	0	0	0.04	0.085621528	0.07	0.050791667	0	2.279590278
8/27/2010	0		0	0.036	0.0958125	0.064	0.041875	0	2.230923611
8/28/2010	0		0	0.034	0.087409722	0.064	0.043934028	0	2.122048611
8/29/2010	0		0	0.036	0.0915	0.069	0.085142361	0	2.128701389
8/30/2010	0	0		0.036	0.088482639	0.068	0.076878472	0	2.309479167
8/31/2010	0	0	0	0.038	0.091850694	0.062	0.077180556	0	2.431902778
9/1/2010		0	0	0.037	0.10397048	0.066	0.086920139	0	2.510027778
9/2/2010	0	0	0	0.036	0.117375	0.066	0.091958333	0	2.536458333
9/3/2010	0	0	0	0.035	0.115802083	0.058	0.061173611	0	2.520444444
9/4/2010	0	0	0	0.034	0.110875	0.056	0.05103125	0	2.356215278
9/5/2010	0	0	0	0.034	0.102427083	0.062	0.055416667	0	2.235104167
9/6/2010	0.1	0.3	2.6	0.036	0.095427083	0.06	0.073711806	0	2.426861111
9/7/2010	1.9		0.7	0.052	0.105972222	0.078	0.16028125	0	3.675847222
9/8/2010	0	0	0	0.072	0.113385417	0.08	0.226788194	0.011	3.827989583
9/9/2010		0	0	0.046	0.097097222	0.071	0.120267361	0	2.817819444

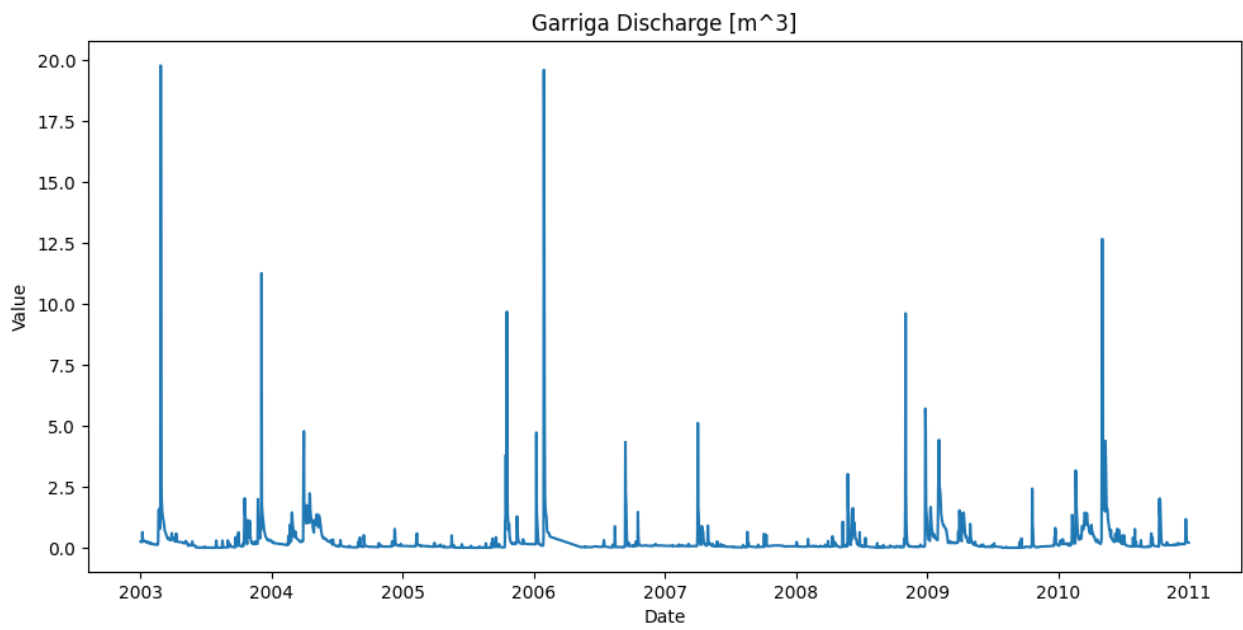
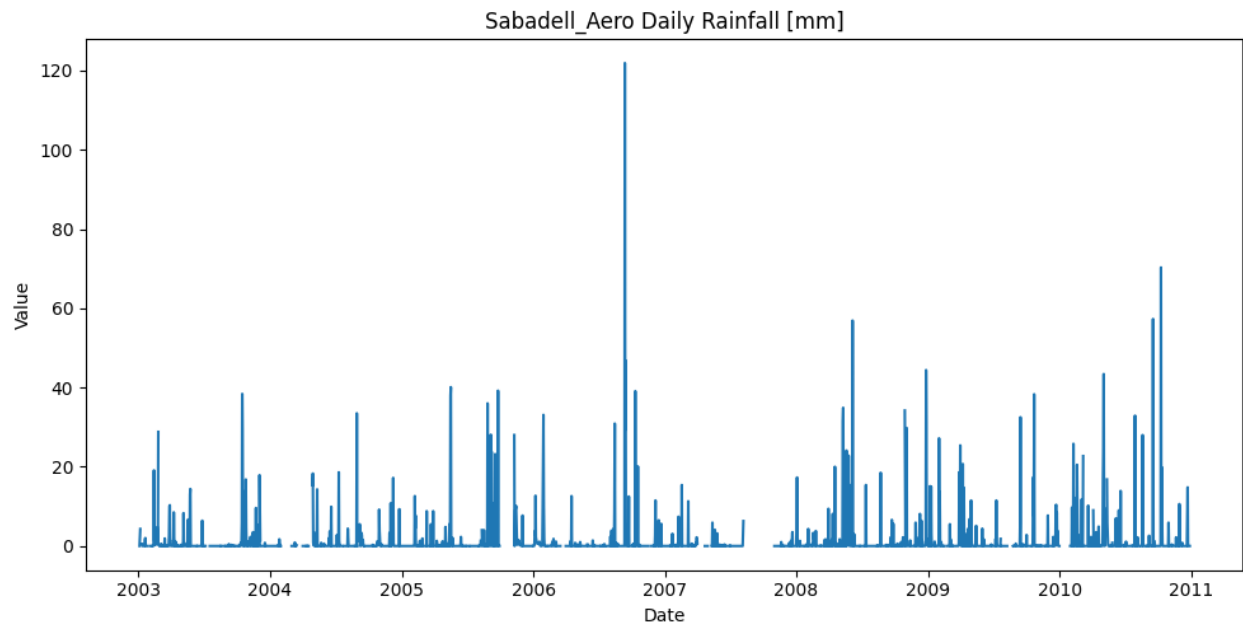
Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
9/10/2010	0	0	0	0.05	0.083909722	0.051	0.259295139	0	2.7919375
9/11/2010	0	0	0	0.044	0.088600694	0.054	0.128034722	0	2.5519375
9/12/2010	0	0	0	0.042	0.081944444	0.051	0.097708333	0	2.314944444
9/13/2010	0	0	0	0.04	0.060430556	0.037	0.084375	0	2.503020833
9/14/2010	0	0	0	0.046	0.054190972	0.055	0.1024375	0	2.573895833
9/15/2010	0	0		0.049	0.065107639	0.055	0.086208333	0	2.567118056
9/16/2010	41.8	11.9	0	0.051	0.063680556	0.066	0.089934028	0	2.587638889
9/17/2010	33.8	18	57.3	0.454	1.400371528	0.297	1.170878472	1.252	10.57291319
9/18/2010	0.1		0.8	0.592	0.970590278	0.233	1.937423611	0.763	13.77184028
9/19/2010	0		0	0.122	0.167020833	0.147	0.36096875	0.016	3.655194444
9/20/2010	9.9			0.114	0.105996528	0.132	0.279927083	0	4.830141304
9/21/2010	5.2		1.1	0.428	0.085434028	0.148	0.327798611	0.012	6.153729167
9/22/2010	0	0	0	0.224	0.172274306	0.135	0.261215278	0.002	4.415131944
9/23/2010	1.8	21	0	0.116	0.08115625	0.143	0.218145833	0	4.197336806
9/24/2010	0	1.7	0	0.102	0.070163194	0.133	0.211291667	0	3.656951389
9/25/2010	0.9	0	0	0.091	0.05834375	0.12	0.203371528	0	3.356798611
9/26/2010	0	0.1	0	0.083	0.05671875	0.112	0.194440972	0	3.126076389
9/27/2010	0	0	0	0.074	0.056614583	0.097	0.184326389	0	3.228083333
9/28/2010	0	0	0	0.071	0.054475694	0.093	0.174746528	0	3.285444444
9/29/2010	0		0	0.069	0.050930556	0.083	0.151881944	0	3.187597222
9/30/2010	0		0	0.068	0.049225694	0.088	0.141184028	0	3.316861111
10/1/2010	0	0	0	0.067	0.054107639	0.088	0.135704861	0	3.185513889
10/2/2010	0	0	0	0.067	0.053909722	0.089	0.121899306	0	2.890875
10/3/2010	0.1	0.1	0	0.067	0.056017361	0.091	0.134145833	0	2.769715278
10/4/2010	0	0	0	0.065	0.055354167	0.082	0.123916667	0	2.834229167
10/5/2010	0	0	0	0.06	0.050236111	0.08	0.176979167	0	2.939868056
10/6/2010	0	0	0	0.054	0.055694444	0.084	0.161659722	0	3.023576389
10/7/2010	0	0	0	0.052	0.048253472	0.079	0.142809028	0	2.890194444
10/8/2010	0	0	0	0.053	0.053572917	0.079	0.142444444	0	2.859465278
10/9/2010	57		70.3	0.054	0.051649306	0.089	0.153357639	0	2.775548611
10/10/2010	2.9	2.4	3.1	1.999	5.358746528	0.356	2.0046875	2.532	28.54599306
10/11/2010	25.5	14.6	19.9	1.37	0.444125	0.181	0.819784722	0.935	10.52683333
10/12/2010	3.7	2.6	7.5	2.02	0.675815972	0.299	4.670100694	1.419	20.76452962
10/13/2010	0.5	0.3	0.6	1.616	0.378454861	0.234	3.259486111	0.625	14.72960069
10/14/2010	0	0	0	1.032	0.214059028	0.195	1.418045139	0.135	7.314135417
10/15/2010	0	0	0	0.547	0.157072917	0.182	0.933420139	0.032	5.657857639
10/16/2010	0	0	0	0.301	0.126329861	0.172	0.745600694	0.008	4.828048611
10/17/2010	0	0	0	0.185	0.106673611	0.164	0.65675	0	4.305104167
10/18/2010	0	0	0	0.146	0.089888889	0.157	0.5935625	0	4.151819444
10/19/2010	0	0	0	0.132	0.079982639	0.152	0.554263889	0	3.995722222
10/20/2010	0	0	0	0.126	0.070534722	0.145	0.505552083	0	3.872486111
10/21/2010		0	0	0.128	0.06828125	0.14	0.472423611	0	3.719819444
10/22/2010	0	0	0	0.122	0.072461806	0.137	0.449211806	0	3.620340278
10/23/2010	0	0	0	0.121	0.116756944	0.135	0.422336806	0	3.489902778
10/24/2010	0	0	0	0.113	0.166944444	0.132	0.401715278	0	3.266590278
10/25/2010		0	0	0.106	0.112447917	0.125	0.394409722	0	3.281652778
10/26/2010	0	0	0	0.106	0.119552083	0.122	0.386920139	0	3.247763889
10/27/2010	0	0	0	0.108	0.122513889	0.12	0.390527778	0	3.253965278
10/28/2010	0	0	0	0.107	0.114253472	0.107	0.374128472	0	3.296868056
10/29/2010	0	0	0	0.11	0.107454861	0.098	0.36696875	0	3.247479167
10/30/2010	1.7	4.5	5.9	0.111	0.104538194	0.098	0.35478125	0	3.114979167
10/31/2010	0.1	0.5	0.4	0.233	0.209701389	0.14	0.592145833	0.152	6.511527778
11/1/2010	0	0	0	0.148	0.123934028	0.109	0.39315625	0.005	3.534506944

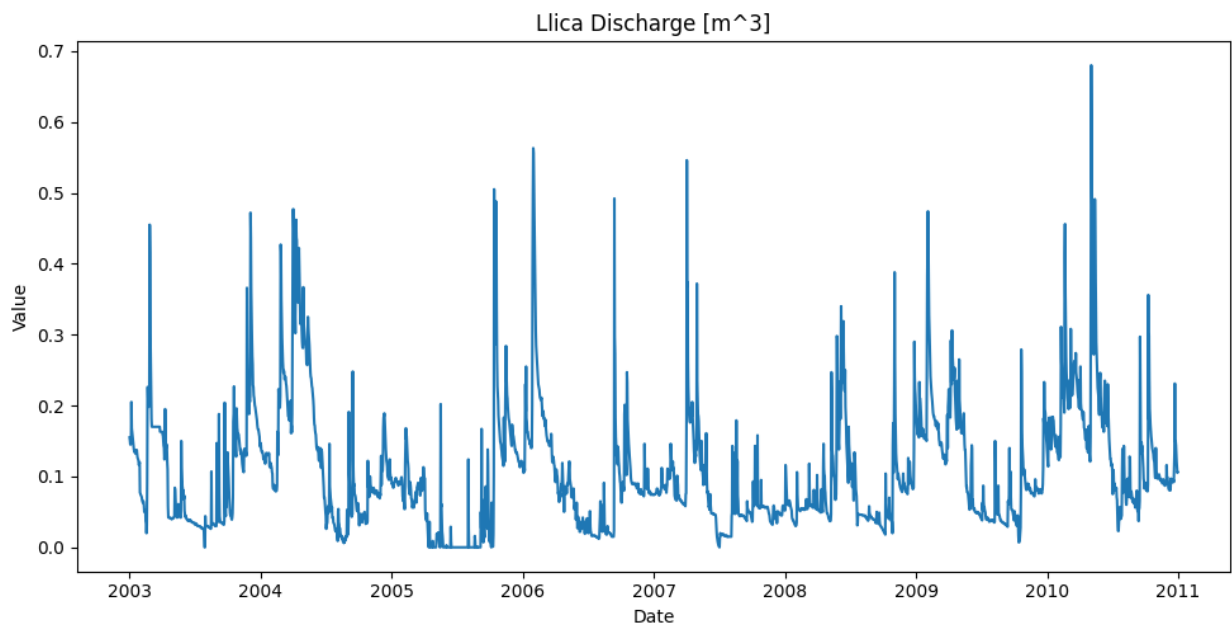
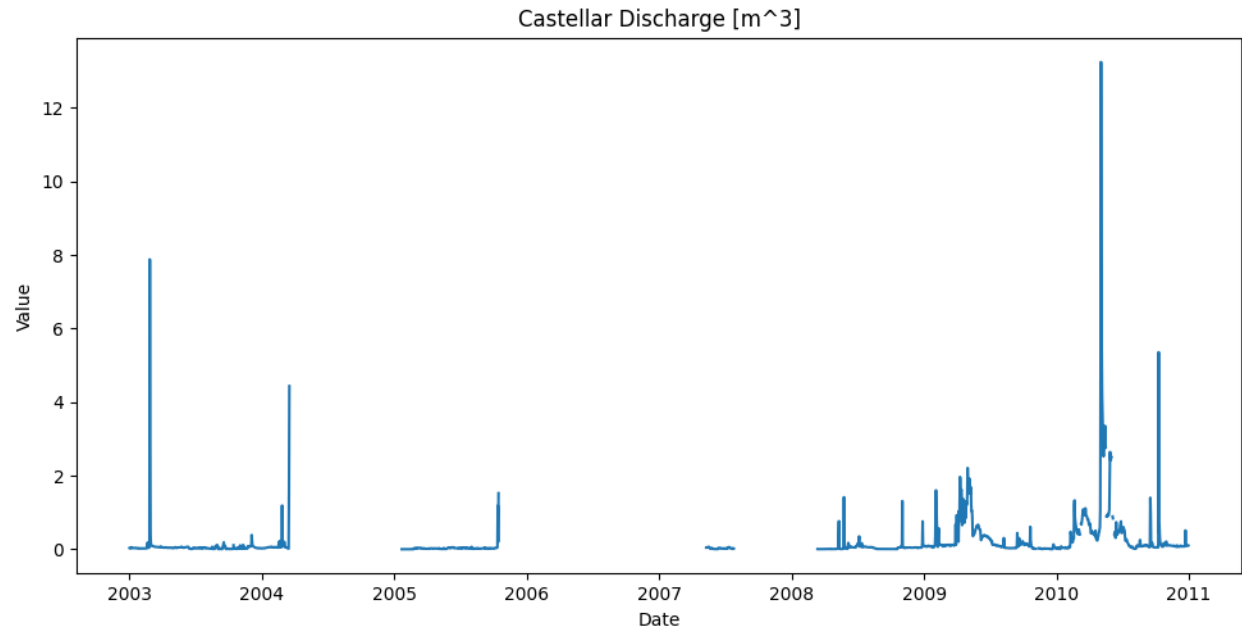
Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
11/2/2010	0	0	0	0.123	0.101649306	0.101	0.334711744	0	3.289055556
11/3/2010	0	0	0	0.12	0.105079861	0.099	0.328902778	0	3.252
11/4/2010	0	0	0	0.113	0.103631944	0.097	0.327559028	0	3.211576389
11/5/2010	0	0	0	0.11	0.103711806	0.097	0.325041667	0	3.163215278
11/6/2010	0	0	0	0.108	0.107006944	0.097	0.324954861	0	3.056333333
11/7/2010	0	18.2	0	0.103	0.106125	0.098	0.327190972	0	2.929354167
11/8/2010		0	0.4	0.11	0.10302807	0.101	0.331642361	0	2.784714286
11/9/2010	0	0	0	0.114	0.11015625	0.103	0.329708333	0	3.903042629
11/10/2010	0	0	0	0.111	0.110177083	0.1	0.325524306	0	3.860415737
11/11/2010	0	0	0	0.106	0.104982639	0.099	0.324986111	0	3.716082686
11/12/2010	0	0	0	0.112	0.103503472	0.095	0.32475	0	3.617966126
11/13/2010	0	0	0	0.107	0.099145833	0.094	0.289427083	0	3.493076879
11/14/2010	0	0	0	0.109	0.096065972	0.096	0.268125	0	3.365944146
11/15/2010	0	0	0	0.109	0.097423611	0.095	0.268253472	0	3.410814522
11/16/2010	0	0	0	0.11	0.097958333	0.095	0.261111111	0	3.43938199
11/17/2010	0.1	0.2	0	0.109	0.091427083	0.092	0.267315972	0	3.516974126
11/18/2010	0	0	0	0.121	0.090392361	0.09	0.276829861	0	3.601332902
11/19/2010	0.8	0.8	0.1	0.118	0.089711806	0.091	0.269510417	0	3.792711348
11/20/2010	1.4	1.4	2.2	0.128	0.094274306	0.095	0.301788194	0	4.1611595
11/21/2010	0	0	0	0.141	0.091736111	0.096	0.305003472	0	3.6460475
11/22/2010	0	0	0	0.115	0.080989583	0.093	0.280572917	0	4.066113772
11/23/2010	0	0	0	0.112	0.096145833	0.089	0.271881944	0	3.823295139
11/24/2010	0	0	0	0.125	0.079819444	0.088	0.271892361	0	3.802260417
11/25/2010	0	0	0	0.124	0.077420139	0.087	0.271947917	0	3.841243056
11/26/2010	1.1		0.7	0.123	0.07121875	0.087	0.269125	0	3.834649306
11/27/2010	0	0	0	0.131	0.072767361	0.092	0.269840278	0	3.904774306
11/28/2010	0		0	0.121	0.066857639	0.089	0.272416667	0	3.558947917
11/29/2010	7	4.9	10.6	0.127	0.066440972	0.089	0.274545139	0	3.688440972
11/30/2010	3.8	1.2	8.3	0.174	0.107180556	0.116	0.484368056	0.137	9.235163194
12/1/2010	0	0	0.1	0.198	0.092569444	0.098	0.332340278	0.009	4.598454861
12/2/2010	0	0	0	0.16	0.075305556	0.099	0.302340278	0	4.118597222
12/3/2010	0	0	0	0.148	0.073305556	0.096	0.296680556	0	4.014288194
12/4/2010	0	0	0	0.145	0.072635417	0.092	0.289097222	0	3.856052083
12/5/2010		0	0	0.139	0.065809028	0.084	0.274	0	3.528190972
12/6/2010		0	0.3	0.147	0.066784722	0.082	0.25753125	0	3.373836806
12/7/2010	0.4	1.8	0.8	0.15	0.072972222	0.081	0.253451389	0	3.367604167
12/8/2010	0.6	0.5	0.2	0.172	0.075916667	0.082	0.253829861	0	3.495413194
12/9/2010	0.8	0.8	0	0.162	0.084	0.082	0.249215278	0	3.413197917
12/10/2010	0	0	0	0.16	0.101336806	0.08	0.251059028	0	3.473979167
12/11/2010	0	0	0	0.153	0.082423611	0.084	0.270361111	0	3.531684028
12/12/2010	0	0	0	0.146	0.075732639	0.097	0.2851875	0	3.441909722
12/13/2010		0	0	0.152	0.077329861	0.094	0.277576389	0	3.562013889
12/14/2010	0	0	0	0.168	0.076815972	0.091	0.243670139	0	3.537236111
12/15/2010	0	0	0	0.164	0.078350694	0.095	0.258173611	0	3.646590278
12/16/2010	0	0	0	0.157	0.078888889	0.096	0.264673611	0	3.738795139
12/17/2010	0		0	0.167	0.07653125	0.096	0.266840278	0	3.751131944
12/18/2010		0	0	0.154	0.074006944	0.096	0.270402778	0	3.727399306
12/19/2010		0	0	0.155	0.075309028	0.095	0.265701389	0	3.576114583
12/20/2010	0	0	0	0.153	0.077805556	0.092	0.256586806	0	3.607760417
12/21/2010	8.2	4.8	7.5	0.204	0.091260417	0.114	0.393972222	0.071	6.471986111
12/22/2010	11	11.7	14.8	0.338	0.105131944	0.133	0.552038194	0.181	7.486368056
12/23/2010	0.8	0.9	0	1.176	0.512836806	0.231	1.22021875	0.908	12.55045139
12/24/2010	0.2	0	0	0.458	0.136940972	0.151	0.560444444	0.039	4.813989583

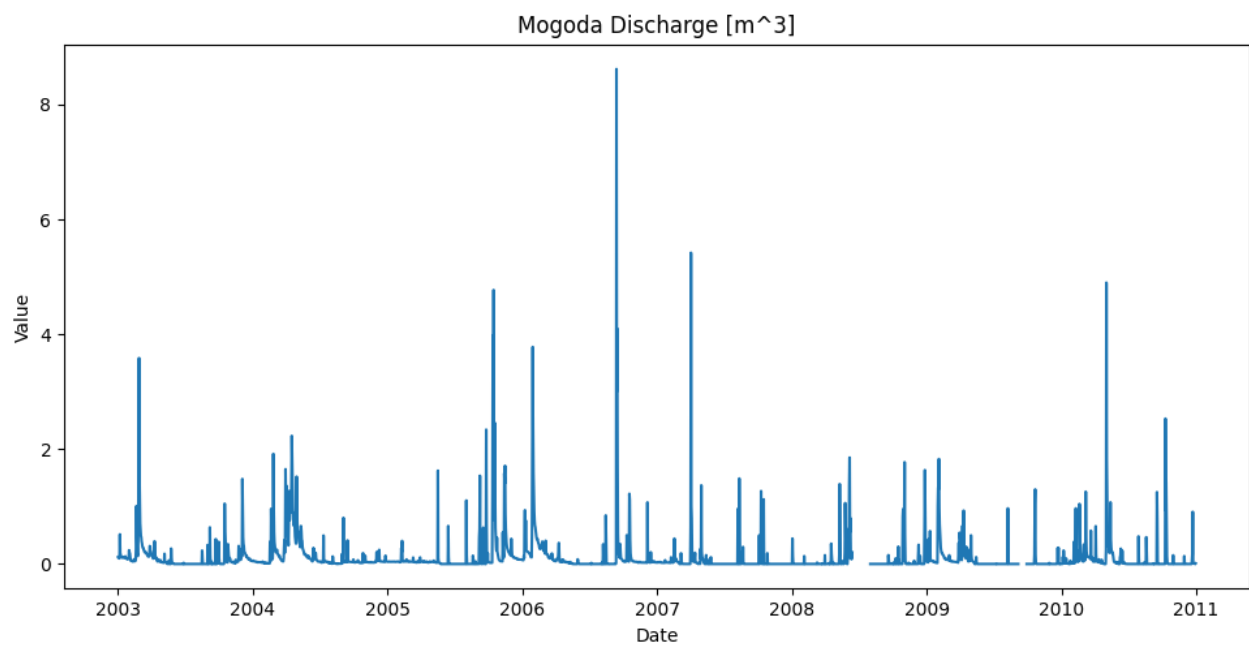
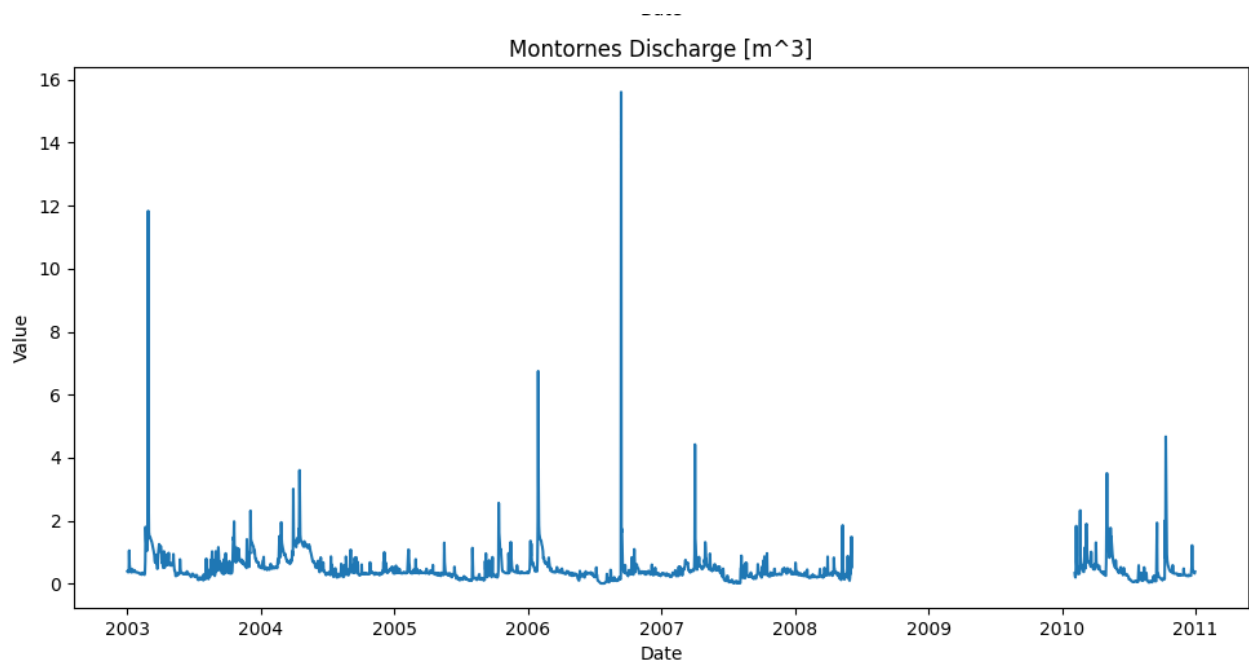
Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]	Montornes Discharge [m^3]	Mogoda Discharge [m^3]	Gramenet Discharge [m^3]
12/25/2010	0	0	0	0.302	0.101895833	0.15	0.429204861	0.023	4.002336806
12/26/2010	0	0	0	0.25	0.095111111	0.144	0.392430556	0.014	3.741784722
12/27/2010	0	0	0	0.238	0.090177083	0.13	0.380753472	0.007	3.674486111
12/28/2010	0	0	0	0.234	0.090659722	0.12	0.366378472	0.004	3.666427083
12/29/2010		0		0.223	0.090461806	0.111	0.342472222	0	3.579454861
12/30/2010	8.9	4.4		0.211	0.096534722	0.105	0.329378472	0	3.399503472
12/31/2010	1.9	1		0.214	0.102444444	0.106	0.387131944	0.011	5.136388889

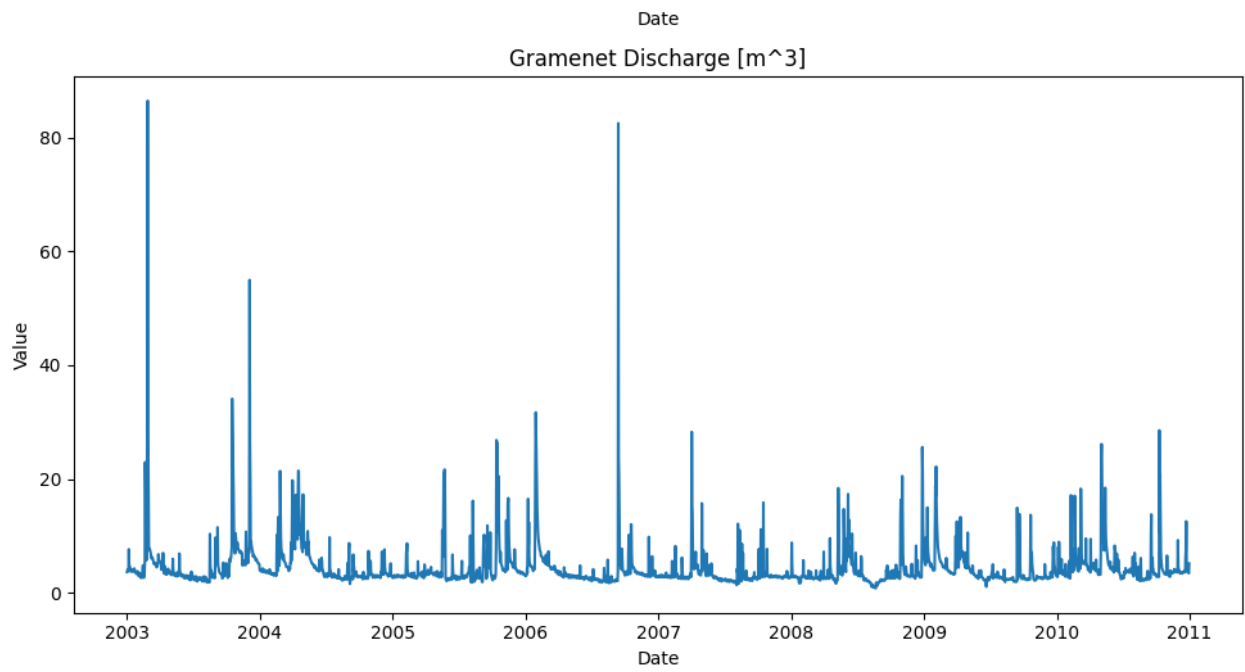
Appendix B: Graphs of Independent Variables



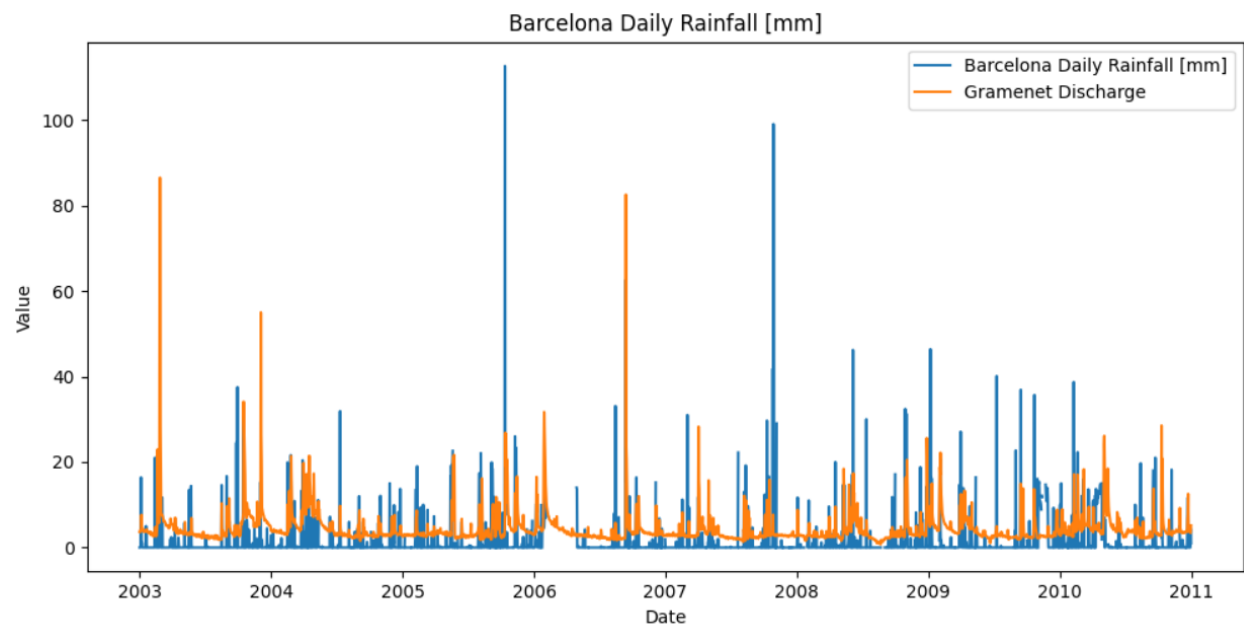
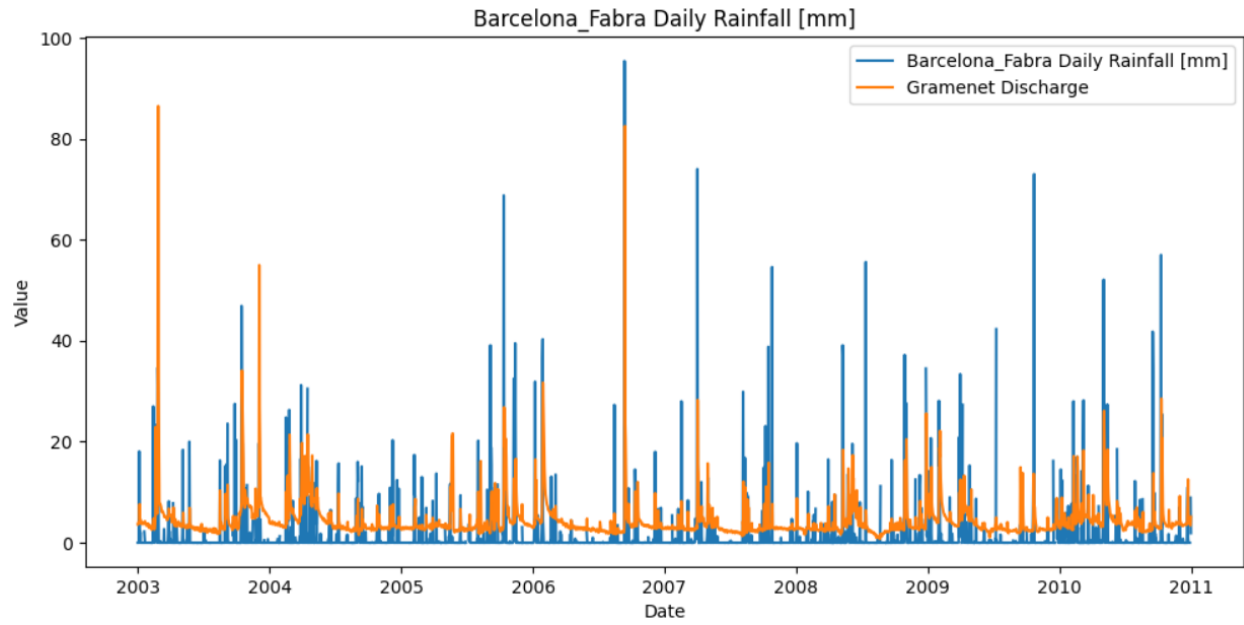


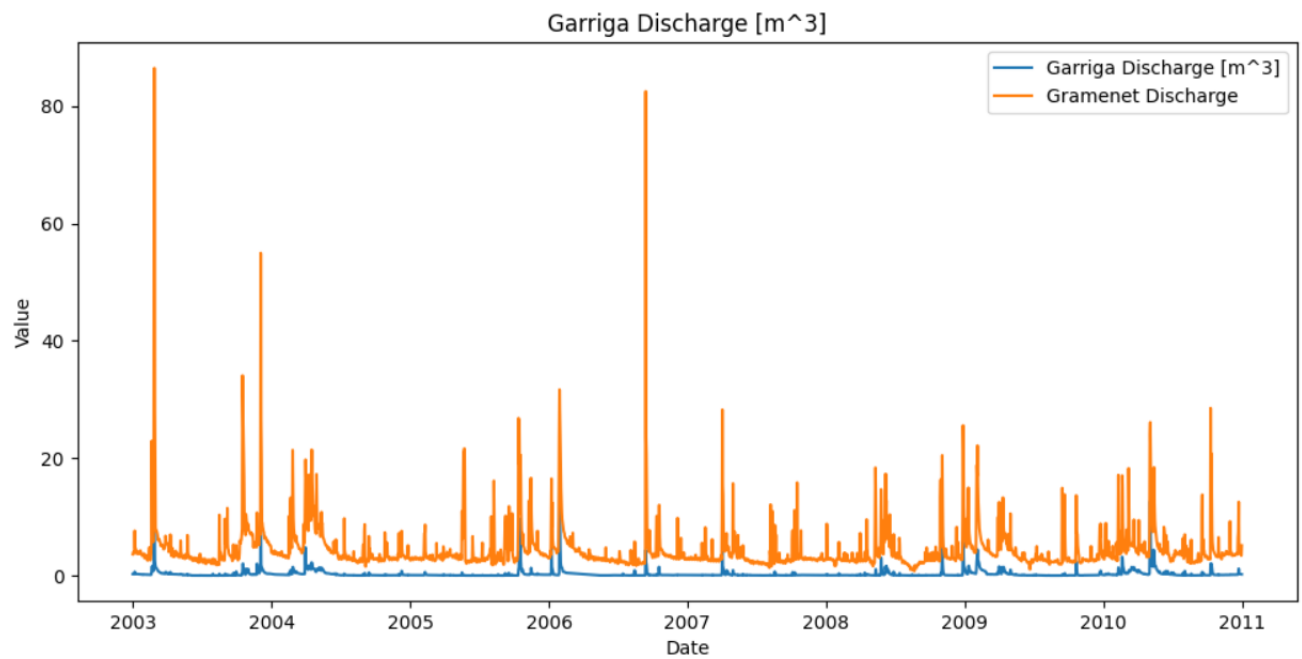
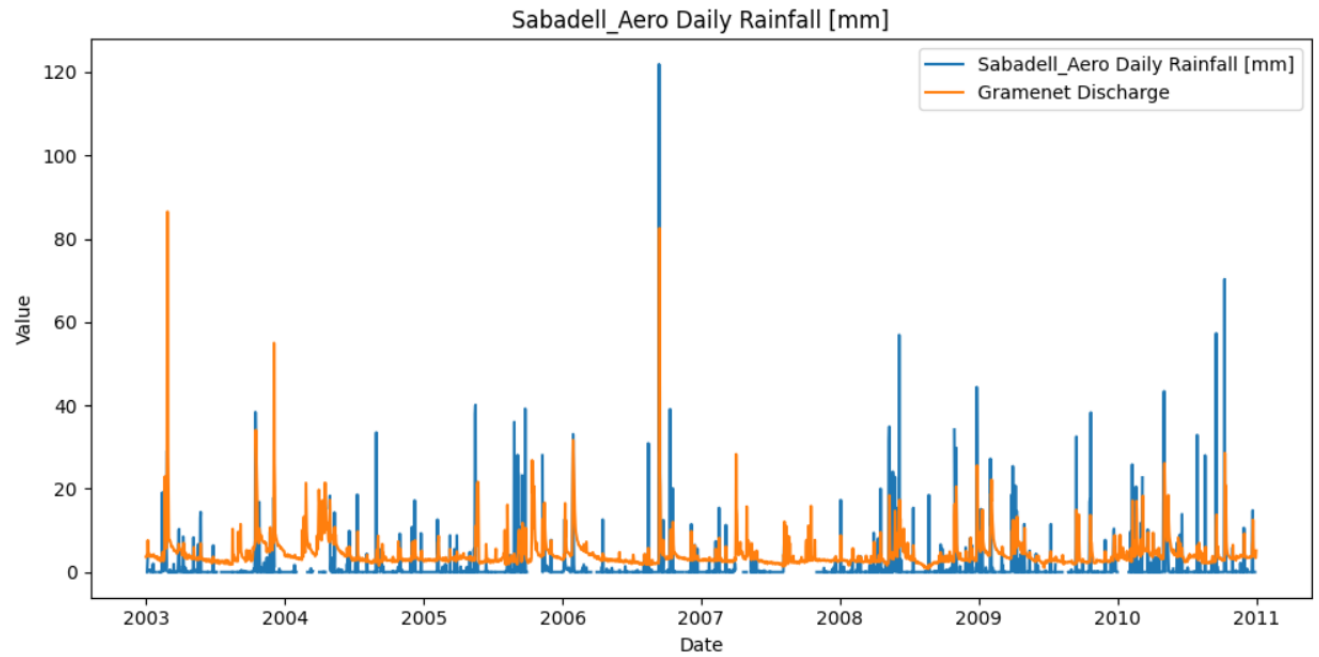


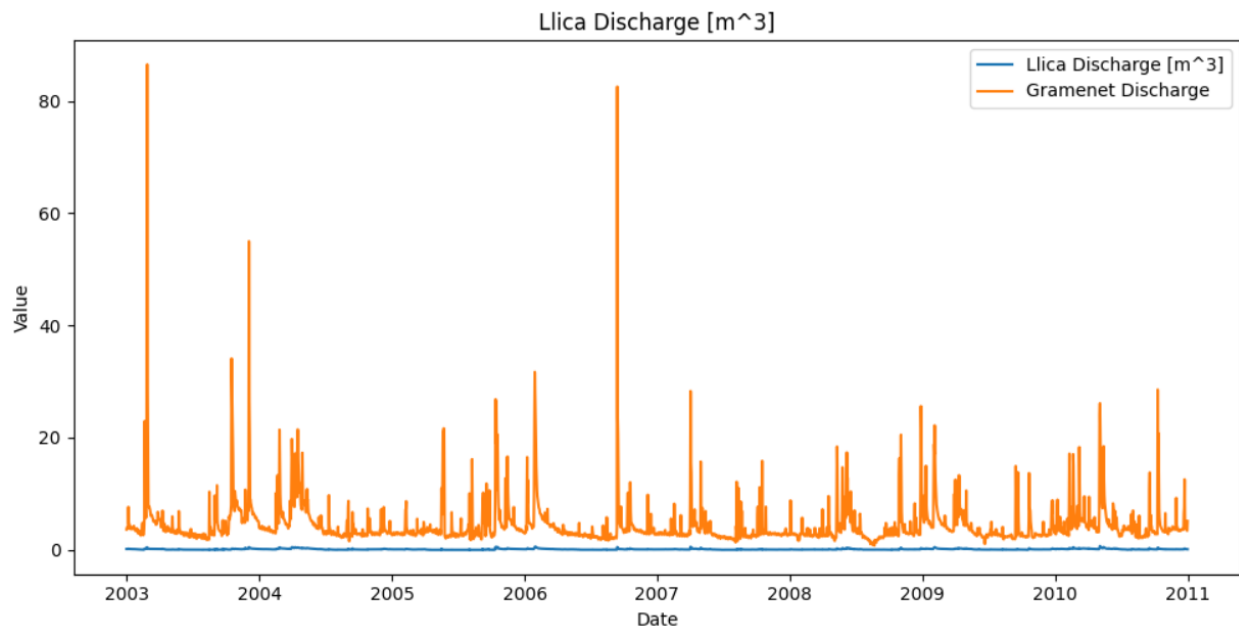
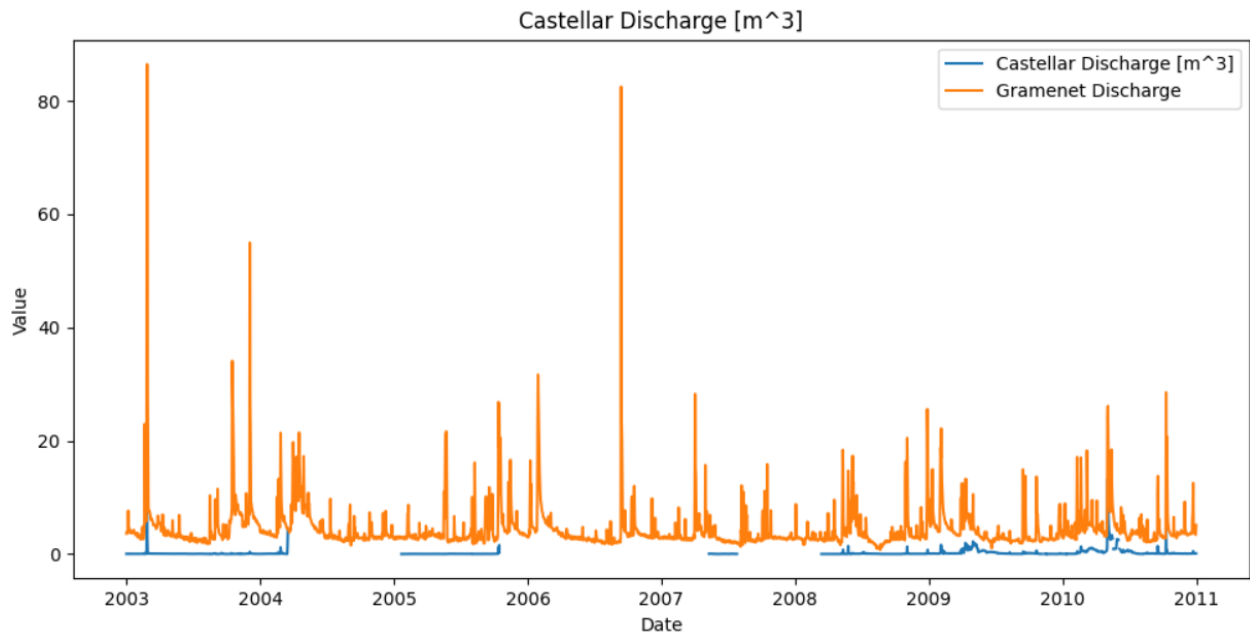


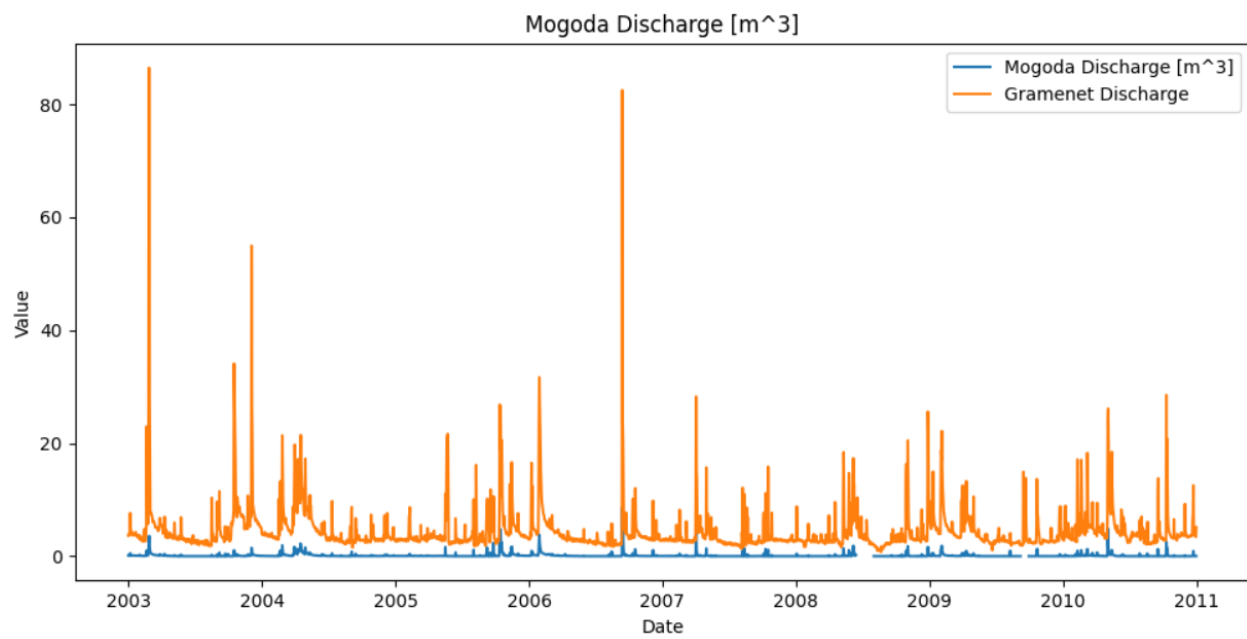
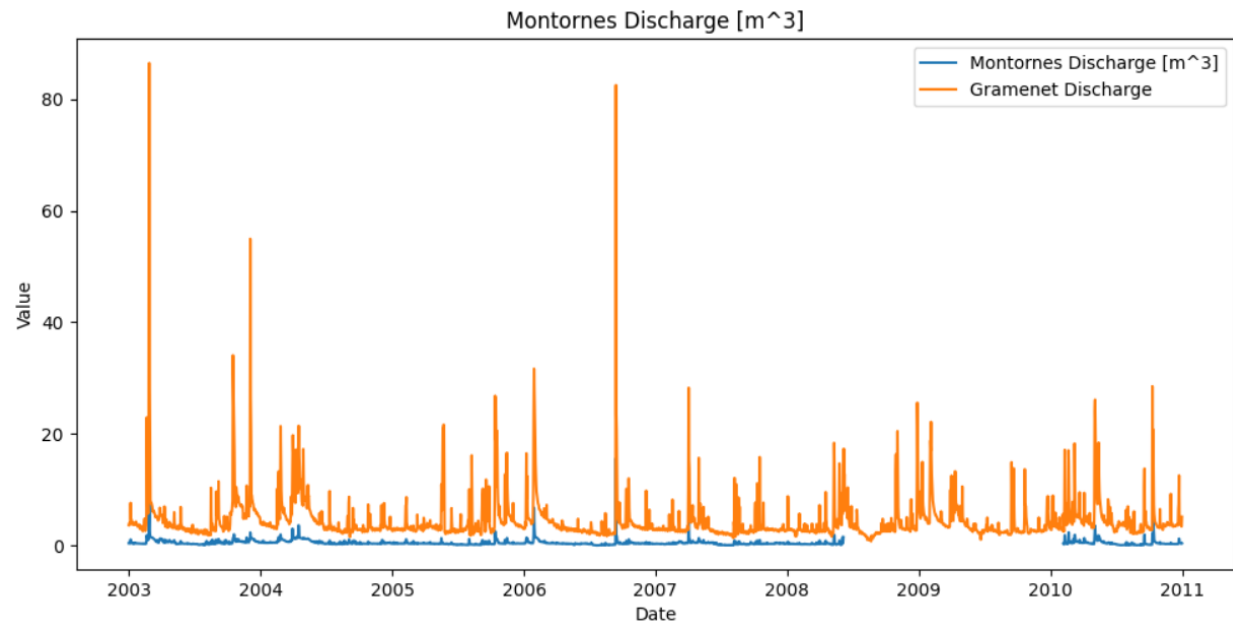


Appendix C: Graphs of Independent Variables vs Gramenet Discharge









Appendix D: Python Code

```
In [ ]: import numpy as np
import pandas as pd
import os
import re
import seaborn as sns
import matplotlib.pyplot as plt
import sklearn
from sklearn import linear_model
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, mean_absolute_error
from sklearn import preprocessing
from matplotlib.dates import DateFormatter
from sklearn.base import BaseEstimator, RegressorMixin
from sklearn.utils.validation import check_X_y, check_array, check_is_fitted
```

```
In [ ]: df = pd.read_csv("Work Term Report Data.csv")
df.head()
```

```
Out[ ]:
```

	Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Castellar Discharge [m^3]	Llica Discharge [m^3]
0	1/1/2003	0.0	0.0	0.0	0.254	0.0327	0.155
1	1/2/2003	0.0	0.0	NaN	0.254	0.0281	0.151
2	1/3/2003	0.0	0.0	NaN	0.246	0.0225	0.145
3	1/4/2003	0.0	0.0	0.0	0.251	0.0300	0.145
4	1/5/2003	18.1	16.4	2.1	0.241	0.0328	0.146

```
In [ ]: plt.figure(figsize=(20, 60))
```

```
Out[ ]: <Figure size 2000x6000 with 0 Axes>
```

```
<Figure size 2000x6000 with 0 Axes>
```

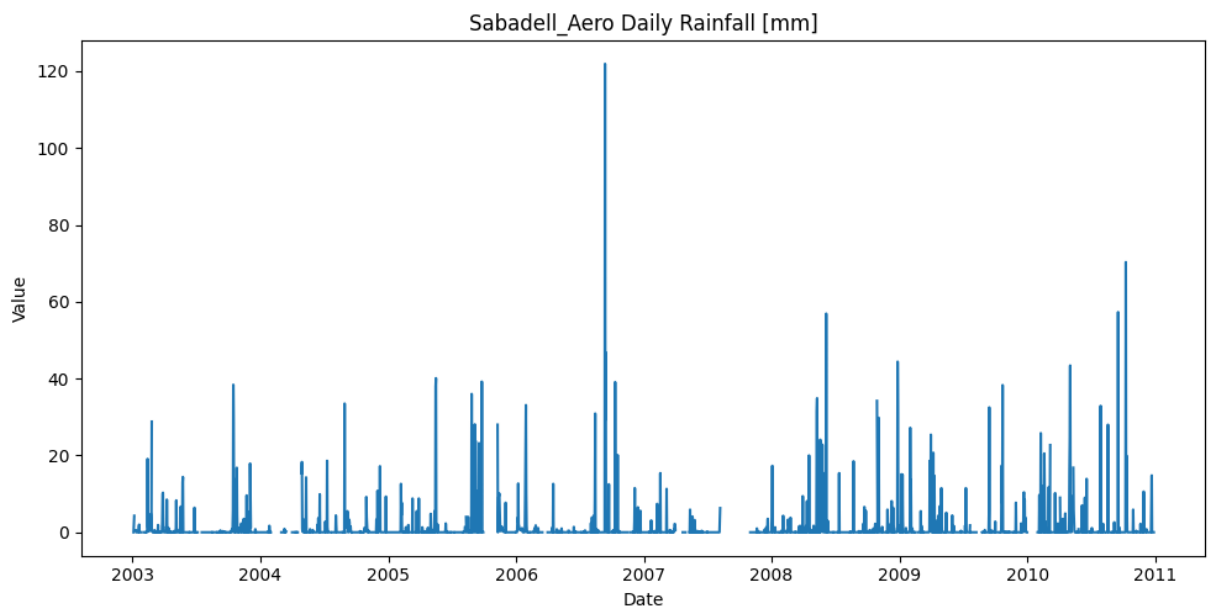
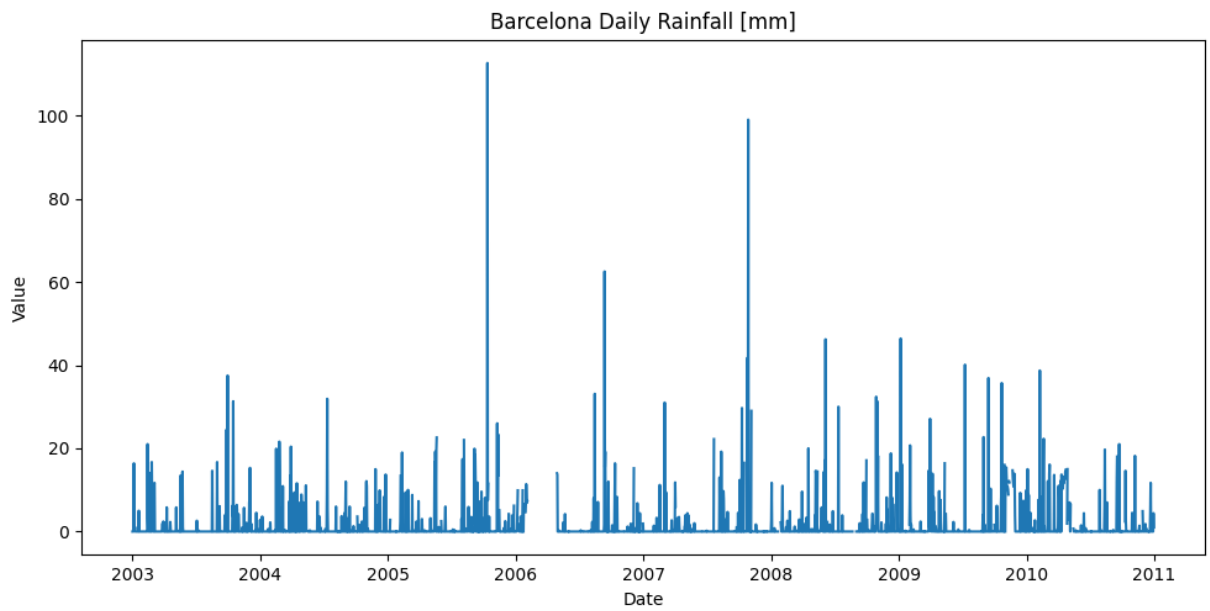
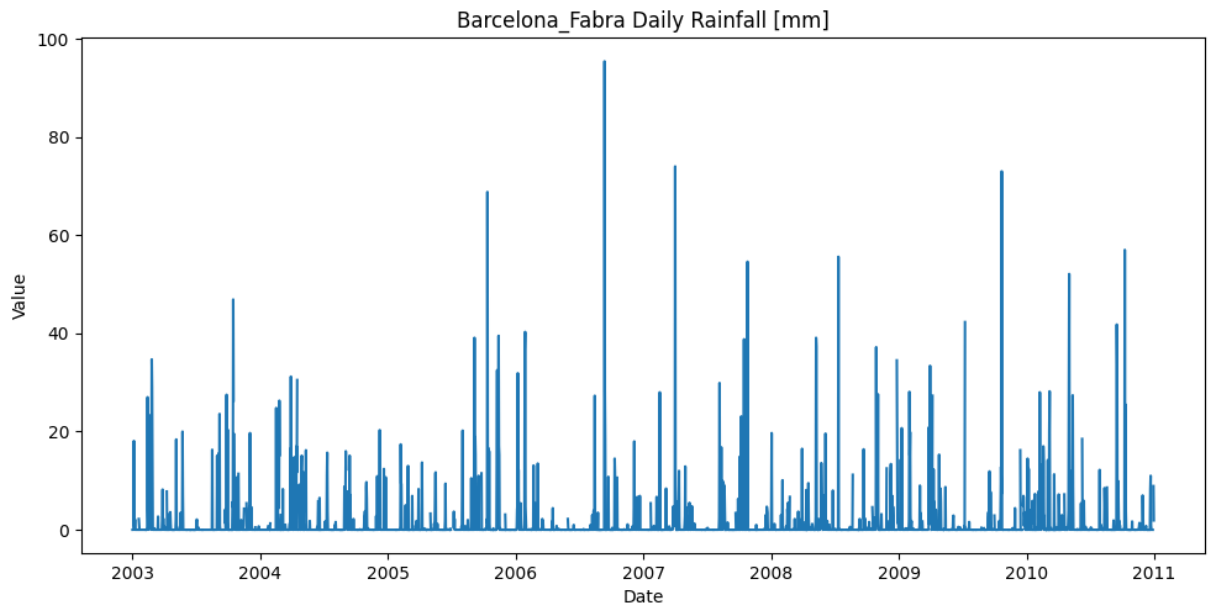
```
In [ ]: dates = pd.to_datetime(df.iloc[:,0]) # Convert the first column to datetime
num_cols = len(df.columns) - 1 # Number of columns to plot, excluding the first co

# Create subplots for each column
fig, axs = plt.subplots(num_cols, 1, figsize=(10, 5*num_cols))

# Plot each column as a separate plot
for i, col in enumerate(df.columns[1:]):
    axs[i].plot(dates, df[col])
    axs[i].set_title(col)
    axs[i].set_ylabel('Value')
    axs[i].set_xlabel('Date')

# Set the x-axis label for the last plot
```

```
# Adjust subplot spacing  
fig.tight_layout()  
  
# Show the plot  
plt.show()
```

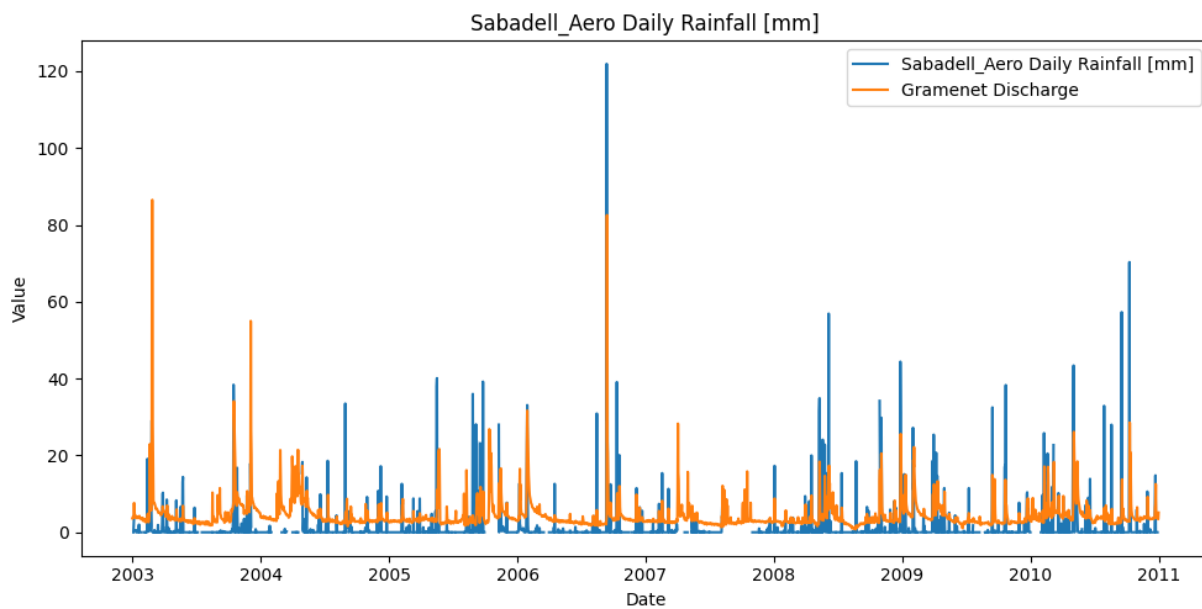
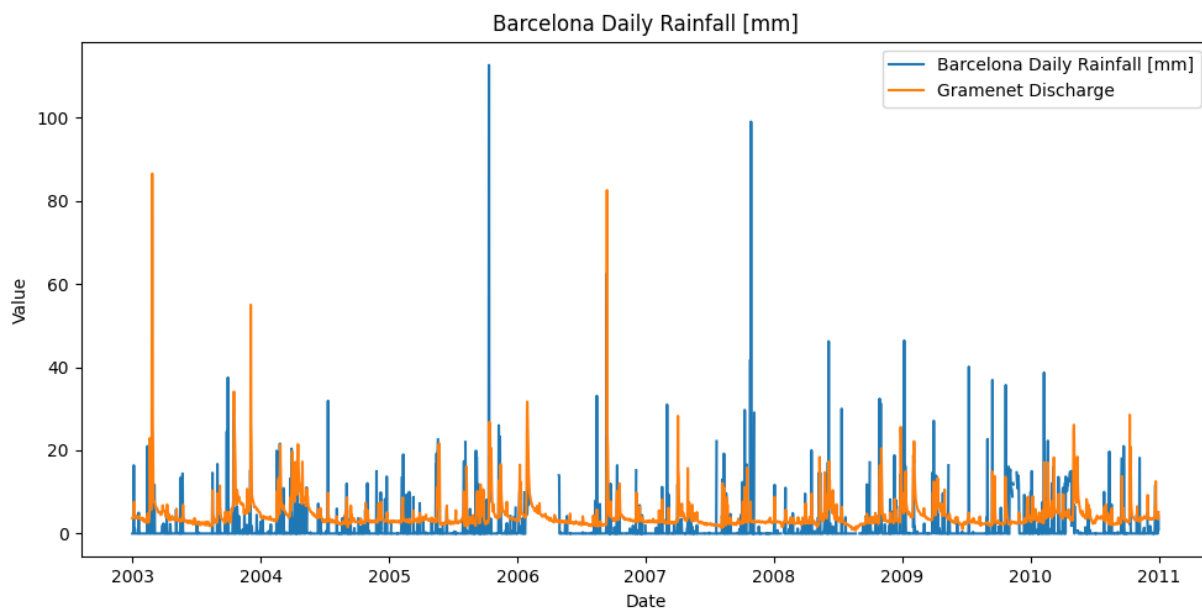
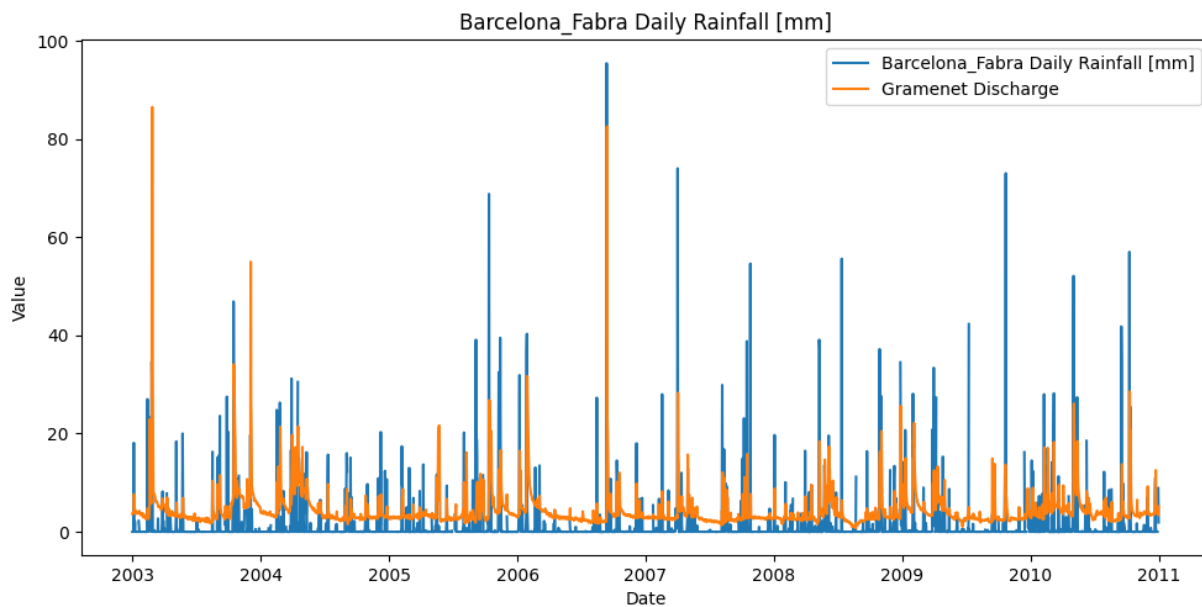

```
In [ ]: dates = pd.to_datetime(df.iloc[:,0]) # Convert the first column to datetime
num_cols = len(df.columns) - 1 # Number of columns to plot, excluding the first co

# Create subplots for each column
fig, axs = plt.subplots(num_cols, 1, figsize=(10, 5*num_cols))
```

```
# Plot each column as a separate plot
for i, col in enumerate(df.columns[1:]):
    axs[i].plot(dates, df[col], label=col)
    axs[i].set_title(col)
    axs[i].set_ylabel('Value')
    axs[i].set_xlabel('Date')

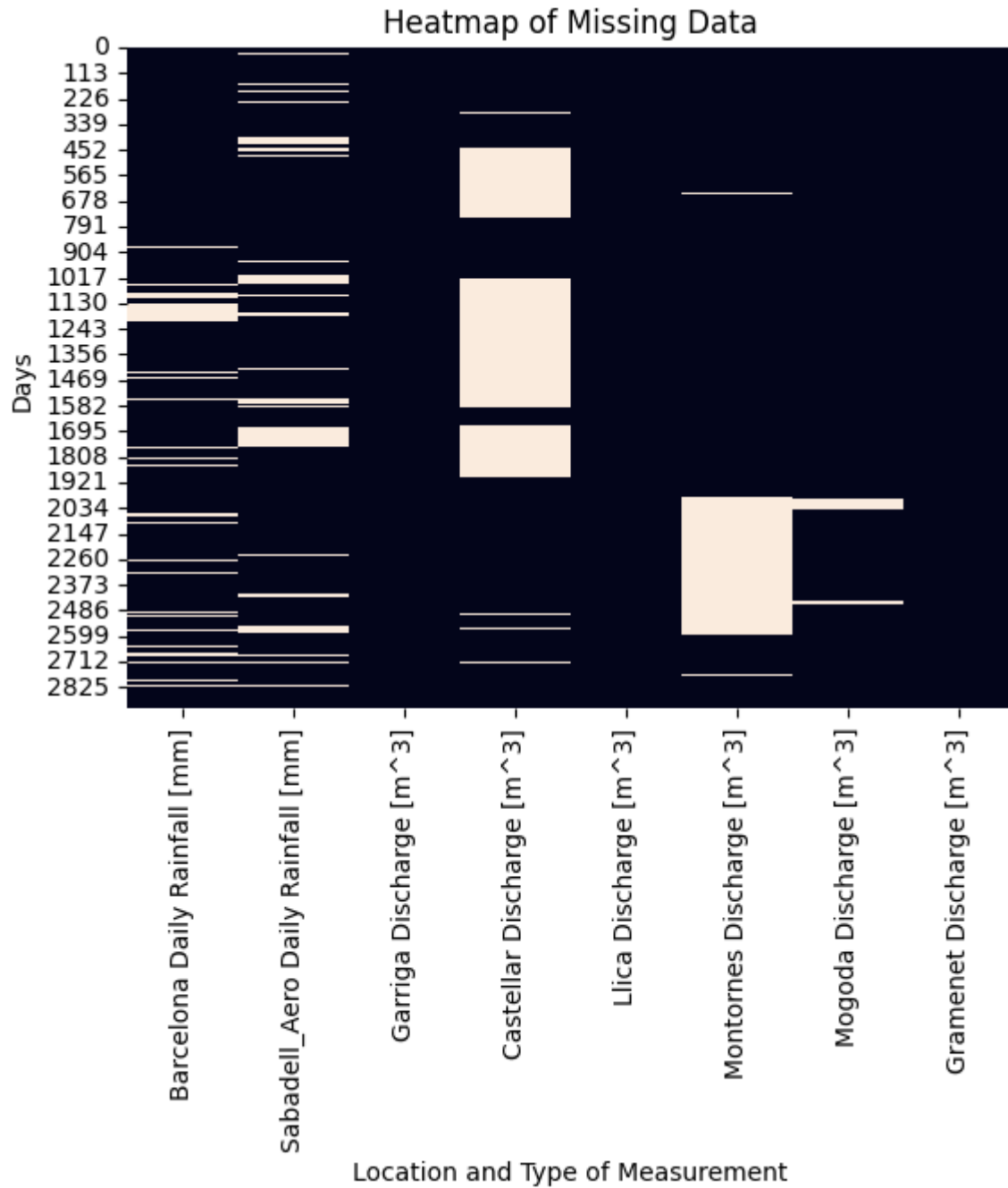
    axs[i].plot(dates, df.iloc[:, -1], label='Gramenet Discharge')
    axs[i].legend()

# Adjust subplot spacing
fig.tight_layout()
# Show the plot
plt.show()
```




```
In [ ]: sns.heatmap(df.iloc[:,2:].isnull(), cbar=False)
plt.ylabel('Days')
plt.xlabel('Location and Type of Measurement')
```

```
plt.title('Heatmap of Missing Data')
plt.show()
```



```
In [ ]: df.drop('Castellar Discharge [m^3]', inplace = True, axis=1)
df.drop('Montornes Discharge [m^3]', inplace = True, axis=1)
df.head()
```


Out[]:

	Date	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Llica Discharge [m^3]	Mogoda Discharge [m^3]
0	1/1/2003	0.0	0.0	0.0	0.254	0.155	0.120
1	1/2/2003	0.0	0.0	NaN	0.254	0.151	0.106
2	1/3/2003	0.0	0.0	NaN	0.246	0.145	0.101
3	1/4/2003	0.0	0.0	0.0	0.251	0.145	0.099
4	1/5/2003	18.1	16.4	2.1	0.241	0.146	0.097

In []: `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2922 entries, 0 to 2921
Data columns (total 8 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Date                                2922 non-null   object
1   Barcelona_Fabra Daily Rainfall [mm] 2679 non-null   float64
2   Barcelona Daily Rainfall [mm]       2699 non-null   float64
3   Sabadell_Aero Daily Rainfall [mm]    2516 non-null   float64
4   Garriga Discharge [m^3]              2922 non-null   float64
5   Llica Discharge [m^3]                2922 non-null   float64
6   Mogoda Discharge [m^3]               2852 non-null   float64
7   Gramenet Discharge [m^3]             2922 non-null   float64
dtypes: float64(7), object(1)
memory usage: 182.8+ KB
```

In []: `df.corr()`

```
C:\Users\hocke\AppData\Local\Temp\ipykernel_9684\1134722465.py:1: FutureWarning: The
default value of numeric_only in DataFrame.corr is deprecated. In a future version,
it will default to False. Select only valid columns or specify the value of numeric_
only to silence this warning.
  df.corr()
```

Out[]:

	Barcelona_Fabra Daily Rainfall [mm]	Barcelona Daily Rainfall [mm]	Sabadell_Aero Daily Rainfall [mm]	Garriga Discharge [m^3]	Llica Discharge [m^3]	Mogoda Discharge [m^3]
Barcelona_Fabra Daily Rainfall [mm]	1.000000	0.680609	0.806012	0.170962	0.202106	0.369651
Barcelona Daily Rainfall [mm]	0.680609	1.000000	0.646151	0.090237	0.126251	0.233462
Sabadell_Aero Daily Rainfall [mm]	0.806012	0.646151	1.000000	0.217428	0.178946	0.400147
Garriga Discharge [m^3]	0.170962	0.090237	0.217428	1.000000	0.611243	0.625492
Llica Discharge [m^3]	0.202106	0.126251	0.178946	0.611243	1.000000	0.612124
Mogoda Discharge [m^3]	0.369651	0.233462	0.400147	0.625492	0.612124	1.000000
Gramenet Discharge [m^3]	0.330710	0.201358	0.338390	0.757268	0.655422	0.802981

```
In [ ]: df2 = df.copy(deep=True)
```

```
In [ ]: df = df.dropna()
```

```
In [ ]: df.info()  
#Now we have clean data that can be used for the MLR analysis.
```

```
<class 'pandas.core.frame.DataFrame'>
```

```
Int64Index: 2076 entries, 0 to 2918
```

```
Data columns (total 8 columns):
```

#	Column	Non-Null Count	Dtype
0	Date	2076 non-null	object
1	Barcelona_Fabra Daily Rainfall [mm]	2076 non-null	float64
2	Barcelona Daily Rainfall [mm]	2076 non-null	float64
3	Sabadell_Aero Daily Rainfall [mm]	2076 non-null	float64
4	Garriga Discharge [m^3]	2076 non-null	float64
5	Llica Discharge [m^3]	2076 non-null	float64
6	Mogoda Discharge [m^3]	2076 non-null	float64
7	Gramenet Discharge [m^3]	2076 non-null	float64

```
dtypes: float64(7), object(1)
```

```
memory usage: 146.0+ KB
```

```
In [ ]: x = df.drop(['Date', 'Gramenet Discharge [m^3]'], axis=1)
        y = df['Gramenet Discharge [m^3]']
```

```
In [ ]: x_train, x_test, y_train, y_test = train_test_split(
        x, y, test_size=0.2, random_state=101)
```

```
In [ ]: # Create a linear regression model and train it using the specified training data.
        model = LinearRegression()
        model.fit(x_train, y_train)

        predictions = model.predict(x_test)
```

```
In [ ]: fig, ax = plt.subplots()

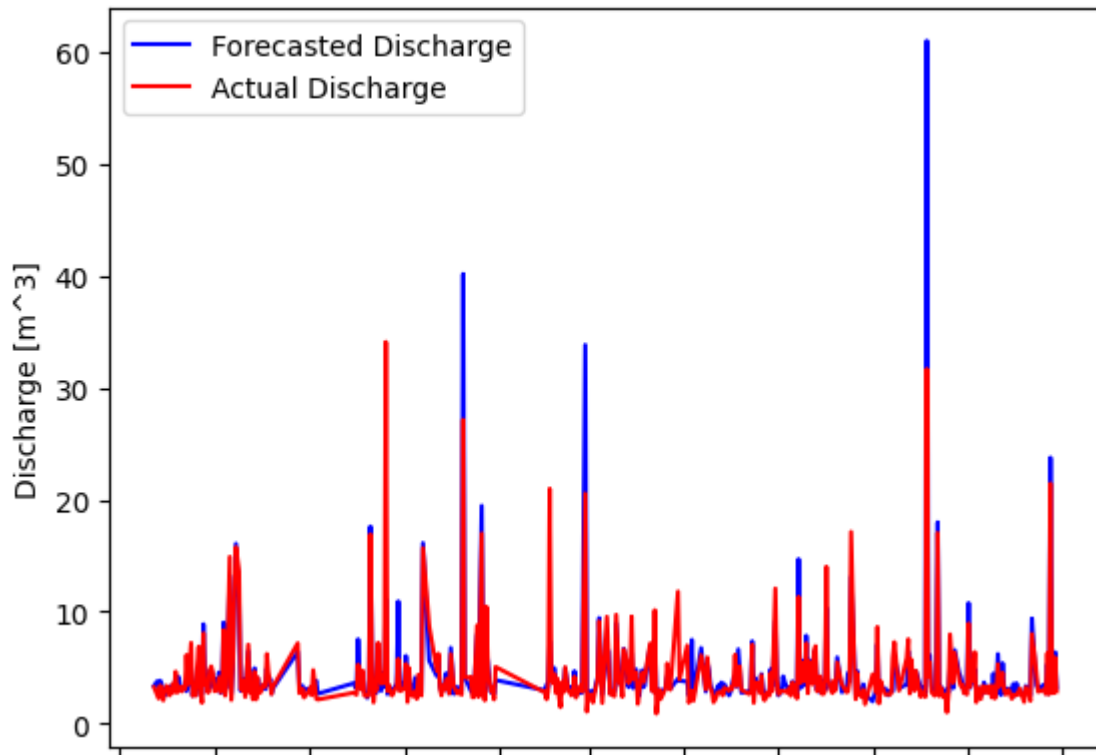
        forecast_dates = pd.to_datetime(df['Date'][-len(predictions):])

        # Plot the two columns against each other
        ax.plot(forecast_dates, predictions, color='blue')
        ax.set_ylabel('Discharge [m^3]')
        ax.set_xticklabels([])
        ax.plot(forecast_dates, y_test, color='red')

        ax.legend(['Forecasted Discharge', 'Actual Discharge'])
        plt.title('MLR Forecast Results')

        # Show the plot
        plt.show()
```

MLR Forecast Results



```
In [ ]: export = pd.DataFrame({'List1': y_test, 'List2': predictions})
```

```
# Save the dataframe to an Excel file
export.to_excel('my_lists.xlsx', index=False)
```

```
In [ ]: mlr_mse = sklearn.metrics.mean_squared_error(y_test, predictions, squared = False)
print(mlr_mse)
mlr_mae = sklearn.metrics.mean_absolute_error(y_test, predictions)
print(mlr_mae)
```

```
2.3824622880655144
```

```
0.8509254103634573
```

```
In [ ]: def sigmoid_activation(x):
        return 1/(1+np.exp(-x))
```

```
p = 6
N = 2076
```

```
In [ ]: elm_mse_list = []
elm_mae_list = []
ELM_predictions_list = []

for i in range(100):
    W, b = np.random.random((p, i)), np.random.random(i)
    H = sigmoid_activation((x_train @ W) + b) # Step 2: Hidden Lay
    beta_hat = np.linalg.pinv(H) @ y_train

    H = sigmoid_activation((x_test @ W) + b)
    ELM_predictions = H @ beta_hat
```

```

    ELM_predictions_list.append(ELM_predictions)
    elm_mse = sklearn.metrics.mean_squared_error(y_test, ELM_predictions, squared =
    elm_mse_list.append(elm_mse)
    elm_mae = sklearn.metrics.mean_absolute_error(y_test, ELM_predictions)
    elm_mae_list.append(elm_mae)

print(min(elm_mse_list))
print(min(elm_mae_list))

min_mse_index = elm_mse_list.index(min(elm_mse_list))
min_mae_index = elm_mae_list.index(min(elm_mae_list))

min_overall_index = round((min_mse_index + min_mae_index)/2)

print(min_overall_index)

fig, ax = plt.subplots()

forecast_dates = pd.to_datetime(df['Date'][-len(predictions):])

# Plot the two columns against each other
ax.plot(forecast_dates, ELM_predictions_list[min_overall_index], color = 'blue')
ax.set_ylabel('Discharge [m^3]')
ax.set_xticklabels([])
ax.plot(forecast_dates, y_test, color='red')

ax.legend(['Forecasted Discharge', 'Actual Discharge'])
plt.title('ELM Forecast Results')

# Show the plot
plt.show()

```

```

1.90755786619104
0.8736766948413008
62

```

ELM Forecast Results

