

Supplementary Materials: The Po River Water Isotopes during the Drought Condition of the Year 2017

Chiara Marchina, Claudio Natali and Gianluca Bianchini

Table 1. Isotopic data and relative *D-exc* and *LC-exc* measured in the years 2012, 2013, 2014 along the Po river course (from Pian del Re to Occhiobello). $\delta^{18}\text{O}$ and δD are reported in [‰,16,19].

Site	Latitude	Longitude	Period	$\delta^{18}\text{O}$ ‰	δD ‰	<i>D-exc</i> ‰	<i>LC-exc</i> ‰
<i>Pian del Re</i>	44°42'04.00"	07°05'42.00"	04/2012	-13.1	-92.0	12.8	1.9
			08/2012	-13.4	-94.7	12.5	1.6
			03/2013	-12.5	-86.8	13.2	2.2
			05/2013	-12.9	-88.8	14.4	3.4
			05/2014	-13.5	-94.8	13.2	2.3
<i>Sanfront</i>	44°39'03.89"	07°19'58.90"	04/2012	-12.7	-82.9	18.7	7.7
			08/2012	-12.1	-84.2	12.6	1.6
			03/2013	-11.9	-82.0	13.2	2.2
			05/2013	-12.2	-84.2	13.4	2.4
			05/2014	-12.7	-89.5	12.1	1.1
<i>Carignano</i>	44°54'31.37"	07°41'29.93"	04/2012	-11.6	-78.9	13.9	2.9
			08/2012	-11.1	-75.3	13.5	2.5
			03/2013	-11.7	-81.2	12.4	1.4
			05/2013	-11.2	-76.8	12.8	1.8
			05/2014	-12.2	-85.7	11.9	0.9
<i>Settimo Torinese</i>	45°07'29.63"	07°46'15.37"	08/2012	-10.7	-74.9	10.7	-0.3
			03/2013	-11.6	-81.9	10.9	-0.1
			05/2013	-10.5	-71.8	12.2	1.1
			05/2014	-12.1	-85.0	11.8	0.8
<i>Crescentino</i>	45°10'32.96"	08°05'55.61"	04/2012	-11.0	-71.6	16.4	5.4
			08/2012	-10.6	-74.0	10.8	-0.2
			05/2014	-12.2	-86.2	11.4	0.4
<i>Casale Monferrato</i>	45°08'30.50"	08°26'50.51"	03/2013	-11.2	-77.5	12.1	1.1
			05/2013	-10.2	-69.9	11.7	0.6
<i>Frassineto Po</i>	45°08'39.77"	08°32'27.29"	04/2012	-11.0	-75.4	12.6	1.6
			08/2012	-10.4	-72.2	11.0	-0.1
			05/2014	-12.2	-86.6	11.0	0
<i>Pieve del Cairo</i>	45°2'10.95	08°49'16.2"	05/2014	-11.8	-82.7	11.7	0.7
<i>Balossa Bigli</i>	45°03'58.00"	08°54'48.80"	04/2012	-9.7	-67.4	10.2	-0.9
			08/2012	-9.8	-69.4	9.0	-2.1
			03/2013	-10.8	-74.5	11.9	0.9
			05/2014	-11.6	-80.3	12.5	1.5
<i>Rea</i>	45°07'27.90"	09°09'31.96"	08/2012	-9.8	-69.4	9.0	-2.1
			05/2013	-10.1	-67.4	13.4	2.3
			05/2014	-11.3	-78.9	11.5	0.5
<i>Senna Lodigiana</i>	45°07'46.41"	09°38'07.16"	04/2012	-9.5	-62.7	13.3	2.2
			08/2012	-9.6	-60.4	16.4	5.3
			05/2014	-10.4	-73.2	10.0	-1.1
<i>Piacenza</i>	45°03'41.76"	09°41'53.51"	08/2012	-9.2	-62.8	10.8	-0.3
			03/2013	-10.4	-71.2	12.0	0.9
			05/2013	-9.8	-66.6	11.8	0.7
			05/2014	-10.5	-72.9	11.1	0.1

Cremona	45°07'43.34"	09°59'45.93"	04/2012	-9.4	-63.8	11.4	0.3
			08/2012	-9.2	-62.4	11.2	0.1
			03/2013	-10.1	-70.2	10.6	-0.5
			05/2013	-9.9	-66.6	12.6	1.5
			05/2014	-10.3	-71.3	11.1	0
Coltaro	44°59'03.67"	10°18'27.70"	04/2012	-9.3	-61.1	13.3	2.2
			08/2012	-9.3	-62.0	12.4	1.3
			03/2013	-10.5	-72.0	12.0	0.9
			05/2013	-9.9	-66.6	12.6	1.5
			05/2014	-10.1	-70.1	10.7	-0.4
Revere	45°03'27.46"	11°07'52.80"	04/2012	-8.9	-63.5	7.7	-3.4
			08/2012	-9.2	-60.6	13.0	1.9
			03/2013	-9.9	-68.1	11.1	0.0
			05/2013	-10.3	-67.8	14.6	3.5
			05/2014	-9.9	-68.8	10.4	-0.7
Occhiobello	44°55'04.71"	11°34'43.13"	04/2012	-8.8	-58.0	12.4	1.3
			08/2012	-8.7	-60.1	9.5	-1.6
			03/2013	-9.9	-67.6	11.6	0.5
			05/2013	-9.9	-66.3	12.9	1.8
			05/2014	-10.0	-69.8	10.2	-0.9

Table 2. Isotopic data and relative *D-exc* and *LC-exc* measured in the years 2015, 2016, 2017 Pontelagoscuro station. $\delta^{18}\text{O}$ and δD are reported in [18].

Date	$\delta^{18}\text{O}\text{‰}$	$\delta\text{D}\text{‰}$	<i>D-exc</i> ‰	<i>LC-exc</i> ‰
22/07/2015	-7.7	-62.4	-0.8	-12.0
12/08/2015	-7.0	-58.2	-2.2	-13.4
17/09/2015	-7.5	-55.1	4.9	-6.3
30/10/2015	-8.6	-62.7	6.1	-5.0
23/12/2015	-8.7	-65.4	4.2	-6.9
22/01/2016	-7.5	-59.6	0.4	-10.8

Table 3. Isotopic data and relative *D-exc* and *LC-exc* measured in the summer 2013 and reported in [17].

ID	Po river branches	Latitude	Longitude	Date	$\delta^{18}\text{O}\text{‰}$	$\delta\text{D}\text{‰}$	<i>D-exc</i> ‰	<i>LC-exc</i> ‰
FU1	Po di Venezia	44°57'25.00"	12°21'54.00"	08/2013	-9.8	-65.7	12.3	1.2
FU2		44°57'21.00"	12°25'09.00"	08/2013	-9.6	-66.7	10.5	-0.6
FU3		44°57'58.57"	12°31'21.10"	08/2013	-9.3	-60.1	13.9	2.8
FU4	Po di Tolle	44°56'15.50"	12°26'04.92"	08/2013	-9.1	-64.8	7.7	-3.4
FU5		44°53'50.56"	12°27'52.58"	08/2013	-8.9	-62.5	8.7	-2.4
FU6		44°51'14.43"	12°27'55.00"	08/2013	-7.3	-26.9	31.6	20.4
FU7	Po di Gnocca	44°55'25.88"	12°19'14.68"	08/2013	-10.2	-64.3	17.1	6.0
FU8		44°50'40.81"	12°22'21.10"	08/2013	-9.9	-64.8	14.0	2.9
FU9		44°48'40.64"	12°24'28.69"	08/2013	-9.2	-65.6	7.8	-3.3
FU10	Po di Goro	44°50'04.23"	12°20'41.42"	08/2013	-8.7	-59.2	10.2	-0.9
FU11		44°48'25.77"	12°22'13.08"	08/2013	-9.1	-64.3	8.7	-2.4
FU12		44°47'37.97"	12°23'42.52"	08/2013	-9.0	-64.0	8.3	-2.8
FU13	Po di Maistra	44°57'42.44"	12°20'01.78"	08/2013	-8.6	-60.2	8.3	-2.8
FU14		44°59'53.67"	12°23'48.82"	08/2013	-8.6	-60.2	8.4	-2.7
FU15		45°01'40.00"	12°24'35.38"	08/2013	-8.3	-58.5	7.9	-3.2

