

GRDC 활용매뉴얼

□ 관측 유출 자료

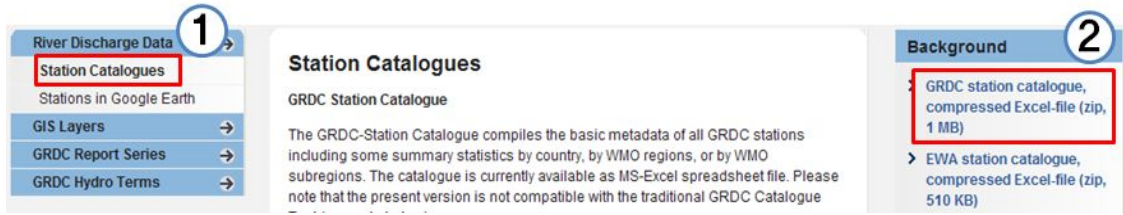
- 유출분석에서 유출 모형 검보정을 위해 GRDC에서 제공하는 관측유출 자료 취득
- GRDC 홈페이지 접속(<http://www.bafg.de/GRDC>) 후 Services탭에서 River Discharge Data 클릭

The screenshot shows the GRDC homepage. At the top, there are logos for GRDC, UN, and BfG. Below the logos is a navigation bar with tabs: The GRDC, Standard Services, Data Products, Special Datasets, Collaboration, and News and Updates. The main content area is divided into three columns. The left column has a 'Services' menu with 'River Discharge Data' highlighted in a red box. The middle column has a 'Welcome to the Global Runoff Data Centre' section with a world map showing GRDC stations. The right column has a 'News and Updates' section with a list of recent news items.

- 우측 Background탭에서 GRDC User Declaration for Discharge Data, Order Form 클릭하여 저장

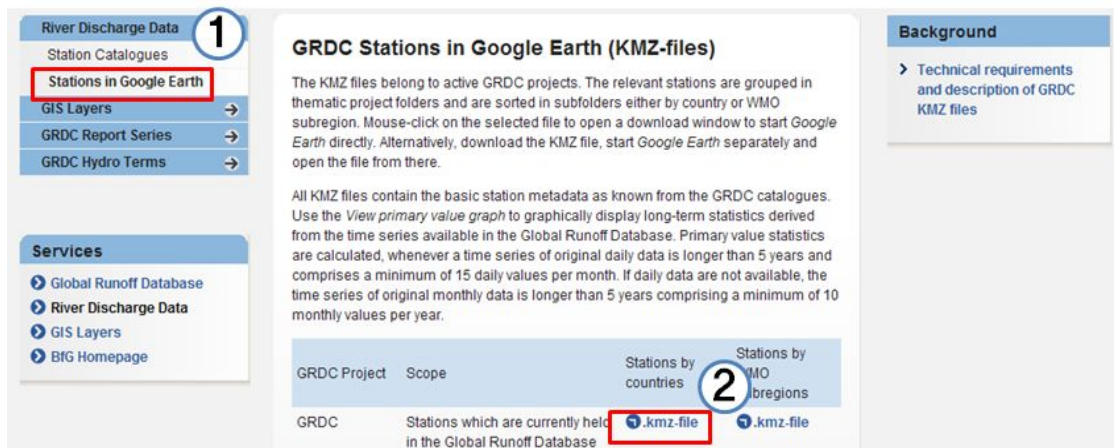
The screenshot shows the 'River Discharge Data' page. The navigation bar is the same as in the previous screenshot. The left column has a 'River Discharge Data' menu with 'GRDC User Declaration for Discharge Data' and 'Order Form' highlighted in a red box. The middle column has a 'Steps to Order River Discharge Time Series' section with a numbered list of steps. The right column has a 'Background' menu with 'GRDC User Declaration for Discharge Data (rtf, 11 KB)' and 'Order Form (rtf, 604 KB)' highlighted in a red box.

- Station Catalogues 클릭 후 Background 탭에서 GRDC station catalogue 클릭하여 저장

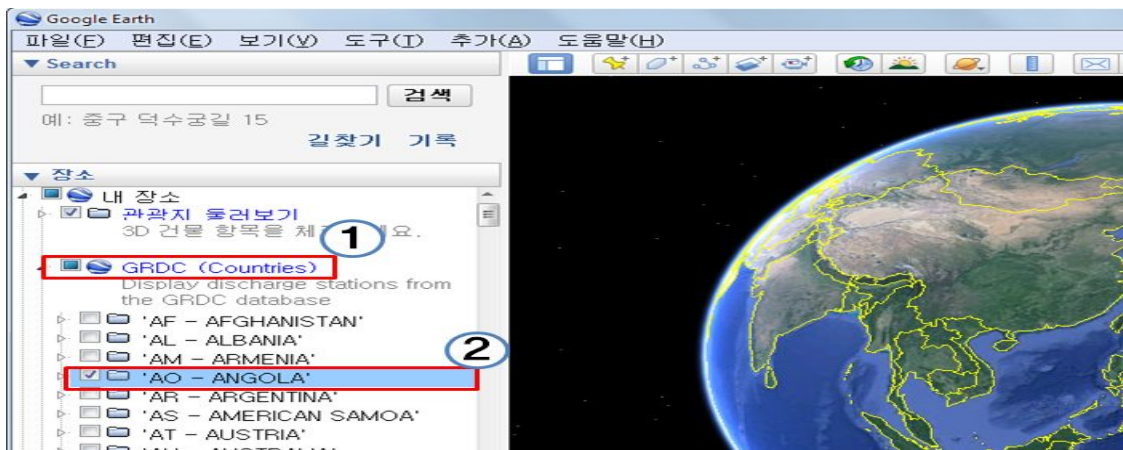


grdc_no	wmo_reg	sub_reg	mix_reg	nat_id	river	station	country_code	lat	long	area	altitude	ds_stat_no
1201100	1	1	101		MEJERDA	GHARDIMAOU	TN	36.27	8.43	1480	192	1201500
1201150	1	1	101		MELLEQUE	K13	TN	36.12	8.5	9000	327	1201500
1201500	1	1	101		MEJERDA	SLOUGHIA	TN	36.58	9.52	20895	67	0
1304100	1	4	104	169/2	EMSA	EMSA	MA	35.52	-5.3	110	5	0
1104150	1	4	104		CHELIF	SIDI BELATAR	DZ	36.02	0.27	43750	2	0
1104200	1	4	104		MINA	OUED EL-ABTAL	DZ	35.5	0.68	6635	205	1104150
1104300	1	4	104		RHIOU	AMMI MOUSSA	DZ	35.87	1.12	2398	140	1104150
1104450	1	4	104		MAZAFRAN	FER A CHEVAL	DZ	36.67	2.82	1912	10	0
1104480	1	4	104		BOUDOUAOU	KEDDARA	DZ	36.65	3.42	829	60	1104500
1104500	1	4	104		ISSER	LAKHDARIA	DZ	36.62	3.58	4149	90	0
1104530	1	4	104		SEBAOU	BAGHLIA	DZ	36.8	3.87	2501	20	0
1104560	1	4	104		BOUSFAM	SIDI YALIA	DZ	36.48	4.6	4300	200	0

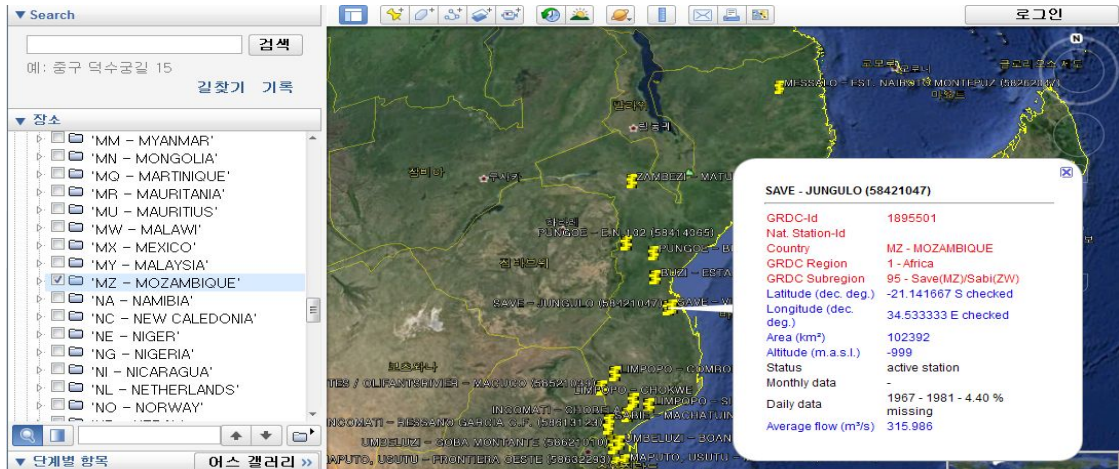
- 유량 관측지점의 위치를 지도에서 확인하기 위해 좌측에서 Station in Google Earth 클릭 후 GRDC kmz파일 클릭 후 저장



- KMZ 파일을 더블클릭하면 Google Earth 프로그램에서 GRCD 관측지점이 표시됨
- 좌측 장소 인덱스에서 GRCD (Countries)를 체크 해제하고 해당국가만 체크



- 해당국가로 이동하여 유량관측소 클릭하면 관측소 주요사항 표시됨



- Station Catalogue 및 Google Earth 관측소 자료를 참고하여 Order form 작성
- 필요서류는 Declaration of the Data User, Order form, Summary of Research Project를 작성하여 E-mail로 신청
- 필요서류 샘플

<p>Declaration of the Data User</p> <p>The undersigned declares that he/she is cognizant of the GRDC Policy Guidelines for the Dissemination of Data and Costing of Services and is responsible for the use of the data provided by the GRDC. The undersigned agrees to use the data under the following conditions:</p> <ol style="list-style-type: none"> The GRDC data are not transferred either in part or total to third parties or to the general public (e.g. by electronic media), without the written consent of the GRDC. The data will not be used for commercial purposes without the written consent of the GRDC. The GRDC itself will obtain clearance from the respective Members or other data providers prior to the release of data for commercial purposes. The data set will be not accessible to unauthorized persons and, after completion of the specified studies, the data set will be kept separate from the general data processing facilities on diskette, tape or CD. After completion of the studies and parts thereof, two copies of the results will be made available for the GRDC, as well as publications arising from the use of the data set or parts thereof. In all publications, the source of the data will be fully cited as: "The Global Runoff Data Centre, D-56068 Koblenz, Germany". The GRDC operates on a non-profit basis. In certain cases, however, the GRDC may charge the data user a nominal amount for data queries and handling or an amount which has been agreed upon between the requesting agency and the GRDC prior to data delivery. The undersigned confirms his/her capacity to pay bills presented by the GRDC for services. Disclaimer <p>While the GRDC makes every effort to eliminate errors from the data base, there may be errors in the data unknown to the GRDC. Neither the GRDC nor its sponsors can be held responsible for the consequences of the use of GRDC data.</p> <p>I, as principal representative of the requesting organization, agree to the conditions stated above.</p> <p>Place and date: <u>Daegu in Korea, 26.06.2013.</u></p> <p>Signature: _____</p>	<p>GRDC Order Form For River Discharge Data</p> <p>I am ordering discharge data for the following stations under the conditions of the GRDC user declaration.</p> <table border="1"> <thead> <tr> <th>GRDC No.</th> <th>River Name</th> <th>Station Name</th> <th>Period</th> <th>Identity / Daily</th> </tr> </thead> <tbody> <tr> <td>1891100</td> <td>MESSALG</td> <td>EST. NAIROTO MONTEPLUG</td> <td>1963-1966</td> <td>Daily</td> </tr> <tr> <td>1891500</td> <td>ZAMBEZI</td> <td>MATUINDO-CAIS</td> <td>1950-1950 1976-1979</td> <td>Daily Monthly</td> </tr> <tr> <td>1894200</td> <td>BUDI</td> <td>ESTAOQUINHA</td> <td>1950-1950 1976-1977</td> <td>Daily Monthly</td> </tr> <tr> <td>1894400</td> <td>PUNDOE</td> <td>BLUEMARIA</td> <td>1963-1963</td> <td>Daily</td> </tr> <tr> <td>1894401</td> <td>PUNDOE</td> <td>E.N.102</td> <td>1984-1980</td> <td>Daily</td> </tr> <tr> <td>1895500</td> <td>SAVE</td> <td>VILLAFRANCA DO SAVE</td> <td>1976-1979</td> <td>Monthly</td> </tr> <tr> <td>1895501</td> <td>SAVE</td> <td>JUNGULO</td> <td>1967-1961</td> <td>Daily</td> </tr> <tr> <td>1896500</td> <td>LIMPOPO</td> <td>DHOKWE</td> <td>1976-1979</td> <td>Monthly</td> </tr> <tr> <td>1896501</td> <td>LIMPOPO</td> <td>SICACATE</td> <td>1970-1988</td> <td>Daily</td> </tr> <tr> <td>1896502</td> <td>LIMPOPO</td> <td>COMBOMANE</td> <td>1965-1993</td> <td>Daily</td> </tr> <tr> <td>1896510</td> <td>ELFANTINES / OUFANTERIVER</td> <td>MACUCO</td> <td>1961-1970</td> <td>Daily</td> </tr> </tbody> </table> <p>Your name, address, phone, fax and email: Name: Hong Business: Research & Strategy Dept. K-water 410, Songdo-dong, Dong-gu, Incheon, 410-711 Republic of Korea Tel: +82-42-629-2140 (Ext. 819) / +82-10-2623-1262 Fax: +82-42-629-2140 E-mail: jghong@kwater.co.kr</p> <p>Date: 2013. 6. 26 (Place and date) (Signature)</p> <p>Global Runoff Data Centre (GRDC) Federal Institute of Hydrology PO Box 10 02 63 D-68002 Koblenz Germany</p> <p>Tel. National: 0261 1308-3224 Tel. International: +49 261 1308 3224 Fax: +49 261 1308 3702 Email: grdc@grdc.de</p>	GRDC No.	River Name	Station Name	Period	Identity / Daily	1891100	MESSALG	EST. NAIROTO MONTEPLUG	1963-1966	Daily	1891500	ZAMBEZI	MATUINDO-CAIS	1950-1950 1976-1979	Daily Monthly	1894200	BUDI	ESTAOQUINHA	1950-1950 1976-1977	Daily Monthly	1894400	PUNDOE	BLUEMARIA	1963-1963	Daily	1894401	PUNDOE	E.N.102	1984-1980	Daily	1895500	SAVE	VILLAFRANCA DO SAVE	1976-1979	Monthly	1895501	SAVE	JUNGULO	1967-1961	Daily	1896500	LIMPOPO	DHOKWE	1976-1979	Monthly	1896501	LIMPOPO	SICACATE	1970-1988	Daily	1896502	LIMPOPO	COMBOMANE	1965-1993	Daily	1896510	ELFANTINES / OUFANTERIVER	MACUCO	1961-1970	Daily	<p>Summary of Research Project</p> <ul style="list-style-type: none"> ● Title : Runoff Analysis for Planning of Water Resources Development in Mozambique ● Research Area : Mozambique <ul style="list-style-type: none"> ● Institution : K-water (Korea Water Resources Corporation) ● Process <ol style="list-style-type: none"> 1. Runoff modeling for estimating stream flow in main river basin in Mozambique. 2. Calibration and verification of runoff model using observed stream flow 3. Estimating reliable water resources.
GRDC No.	River Name	Station Name	Period	Identity / Daily																																																										
1891100	MESSALG	EST. NAIROTO MONTEPLUG	1963-1966	Daily																																																										
1891500	ZAMBEZI	MATUINDO-CAIS	1950-1950 1976-1979	Daily Monthly																																																										
1894200	BUDI	ESTAOQUINHA	1950-1950 1976-1977	Daily Monthly																																																										
1894400	PUNDOE	BLUEMARIA	1963-1963	Daily																																																										
1894401	PUNDOE	E.N.102	1984-1980	Daily																																																										
1895500	SAVE	VILLAFRANCA DO SAVE	1976-1979	Monthly																																																										
1895501	SAVE	JUNGULO	1967-1961	Daily																																																										
1896500	LIMPOPO	DHOKWE	1976-1979	Monthly																																																										
1896501	LIMPOPO	SICACATE	1970-1988	Daily																																																										
1896502	LIMPOPO	COMBOMANE	1965-1993	Daily																																																										
1896510	ELFANTINES / OUFANTERIVER	MACUCO	1961-1970	Daily																																																										

- E-mail 내용

•Title : Order discharge data in Mozambique
 •Receiver : GRDC@bafg.de
 •Contents
 Hello!
 I'm Hong, Gildong working at K-water(Korea Water Resources Corporation) in Korea.
 I would like to receive discharge data for 19 stations(In Mozambique) in the attached GRDC order form.
 Thank you for your service.
 Sincerely!