WDCGG DOI plan

June 11, 2020 ET-WDCs telecom

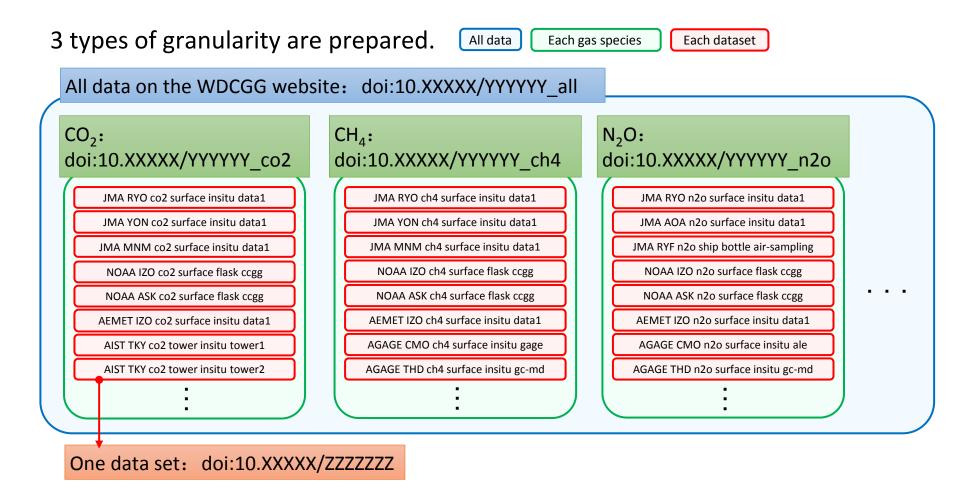
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Introduction

- WDCGG will assign DOIs for the dataset on WDCGG this fiscal year (~Mar. 2021).
- now preparing to join as a member of JaLC (Japan Link Center: Registration Agency in Japan). Members can register DOIs to their digital objects through RAs.
- The WDCGG DOI plans (are now under consideration)
 - DOI granularity and nesting
 - One DOI for all data
 - for each gas species (all CO₂ data, all CH₄ data, ...)
 - for each data (Minamitorishima in-situ CO₂ by JMA, ...)
 - Adding of DOI for old versions data
 - ➤ WDCGG DOI ⇔ prioritize original DOI

Details are on the following pages.

DOI granularity and nesting plan



Correspondence relations of DOIs will be described on the WDCGG website.

DOI minting plan – all data –

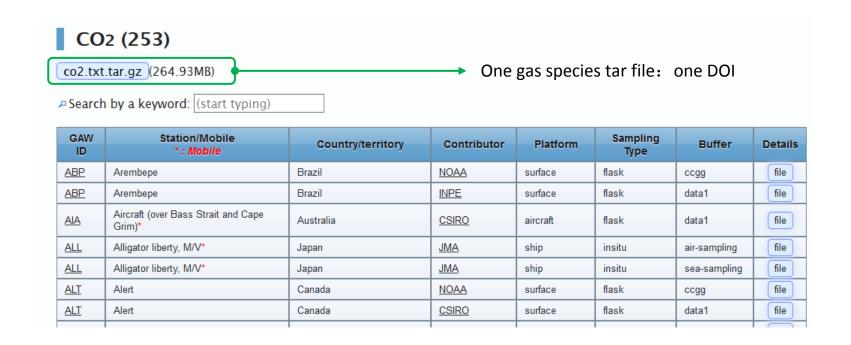
wdcgg.txt.tar.gz

All data on the WDCGG website: one DOI

Updated Date	Version *: the latest version	GAW ID	Station/Mobile	Gas Species	Platform	Sampling Type	Buffer	Organization	Details
2020-04- 24	0002-4001- 1701-01- 02-3006 -2020-04- 24-1132*	ALT	Alert	CBrCIF2	surface	flask	hats- gcms	NOAA (Earth System Research Laboratory, NOAA)	click
2020-04- 24	0002-4001- 3012-01- 02-3006 -2020-04- 24-0902*	ALT	Alert	C2Cl4	surface	flask	hats- gcms	NOAA (Earth System Research Laboratory, NOAA)	click
2020-04- 24	0002-4003- 1701-01- 02-3006 -2020-04- 24-1132*	BRW	Barrow (AK)	CBrCIF2	surface	flask	hats- gcms	NOAA (Earth System Research Laboratory, NOAA)	click

- All dataset on the WDCGG.
- (Information for inclusion relation is not available yet.)

DOI minting plan – each gas species –



- Users can refer all data from a lot of stations by one DOI.
 (In this example, all CO₂ data can be referred.)
- We will provide the version history information (which dataset is included) for proper citing.
- (Information for inclusion relation is not available yet.)

DOI minting plan – each dataset –

Updated Date	Version *: the latest version	GAW ID	Station/Mobile	Gas Species	Platform	Sampling Type	Buffer	Organization	Details	
2019-09-19	0002-3007-1001-01-02-3001 -2019-09-19-1114*	<u>USH</u>	Ushuaia	<u>CO2</u>	surface	flask	ccgg	NOAA (Earth System Research Laboratory, NOAA)	click	One data set: one DOI
2019-09-19	0002-3007-1002-01-02-3001 -2019-09-19-1114*	<u>USH</u>	Ushuaia	CH4	surface	flask	ccgg	NOAA (Earth System Research Laboratory, NOAA)	click	
2019-09-19	0002-3007-1003-01-02-3001 -2019-09-19-1114*	USH	Ushuaia	<u>N2O</u>	surface	flask	ccgg	NOAA (Earth System Research Laboratory, NOAA)	click	
2019-09-19	0002-3007-1004-01-02-3001 -2019-09-19-1114*	USH	Ushuaia	SF6	surface	flask	ccgg	NOAA (Earth System Research Laboratory, NOAA)	click	
2019-09-19	0002-3007-1102-01-02-3101 -2019-09-19-1114*	<u>USH</u>	Ushuaia	13CO2	surface	flask	sil	NOAA (Earth System Research Laboratory, NOAA)	click	

- Users can specify the individual dataset by this type of DOI easily.
- DOI remains the same even when the data version updated.
- Only the latest version data is available on the WDCGG website.

DOI minting plan – Handling of older ver. data –

Updated Date	Version *: the latest version	GAW ID	Station/Mobile	Gas Species	Platform	Sampling Type	Buffer	Organization	Details	
2019-09-19	0002-3007-1001-01-02-3001 -2019-09-19-1114*	<u>USH</u>	Ushuaia	<u>CO2</u>	surface	flask	ccgg	NOAA (Earth System Research Laboratory, NOAA)	click	One data set one DOI
2019_09_19	0002-3007-1002-01-02-3001	HSH	Hebuaia	CH4	curtace	flack	ccaa	NOAA (Farth System Research	7/	

- The version history is described on the website.
- The data of old versions are not available at WDCGG.
- The data cited at the time of writing the paper may differ from the latest version data on WDCGG.



- There are some comments that WDCGG should mint separate DOIs to each versions. To be, or not to be: that is the question:
- If we do not change, Citing its DOI with the data version is recommended when users cite data. If we give DOIs to older versions, we need to archive the data for all versions on WDCGG website. The number of DOIs to give will be huge. So we are looking for the best way.

DOI minting plan – if original DOI exists–



- The original DOI by the data provider is prioritized.
 (The original data DOIs are already indicated on the current WDCGG website.)
- No new DOIs will be issued by WDCGG for such datasets.
- Contributors can choose whether to get DOI by WDCGG or not.
- -> If no reply, WDCGG mints DOI.

WDCGG DOI ⇔ original DOI

Once a DOI is minted for a specific dataset, it cannot be removed ever after.

	Current	>	Updated
0	WDCGG DOI	>	WDCGG DOI
0	Original DOI	>	Original DOI
×	WDCGG DOI	>	Original DOI
×	Original DOI	>	WDCGG DOI

- The DOI is a system which provides persistent access to the contents.
- Once DOI is issued by the WDCGG, the WDCGG has the duty to maintain the data access and landing pages (to access the data).
- Even though the contributors needed to withdraw their data for special reasons, the WDCGG has to keep its landing page to show the dataset is unavailable.