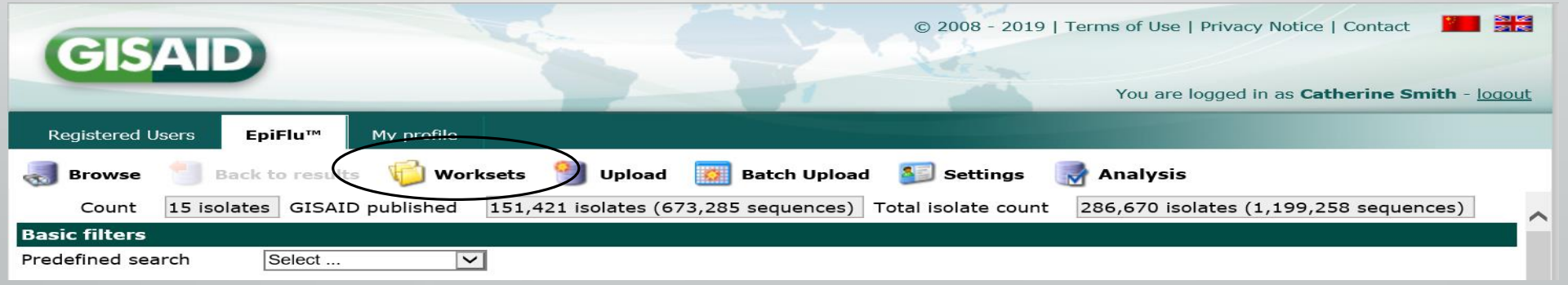
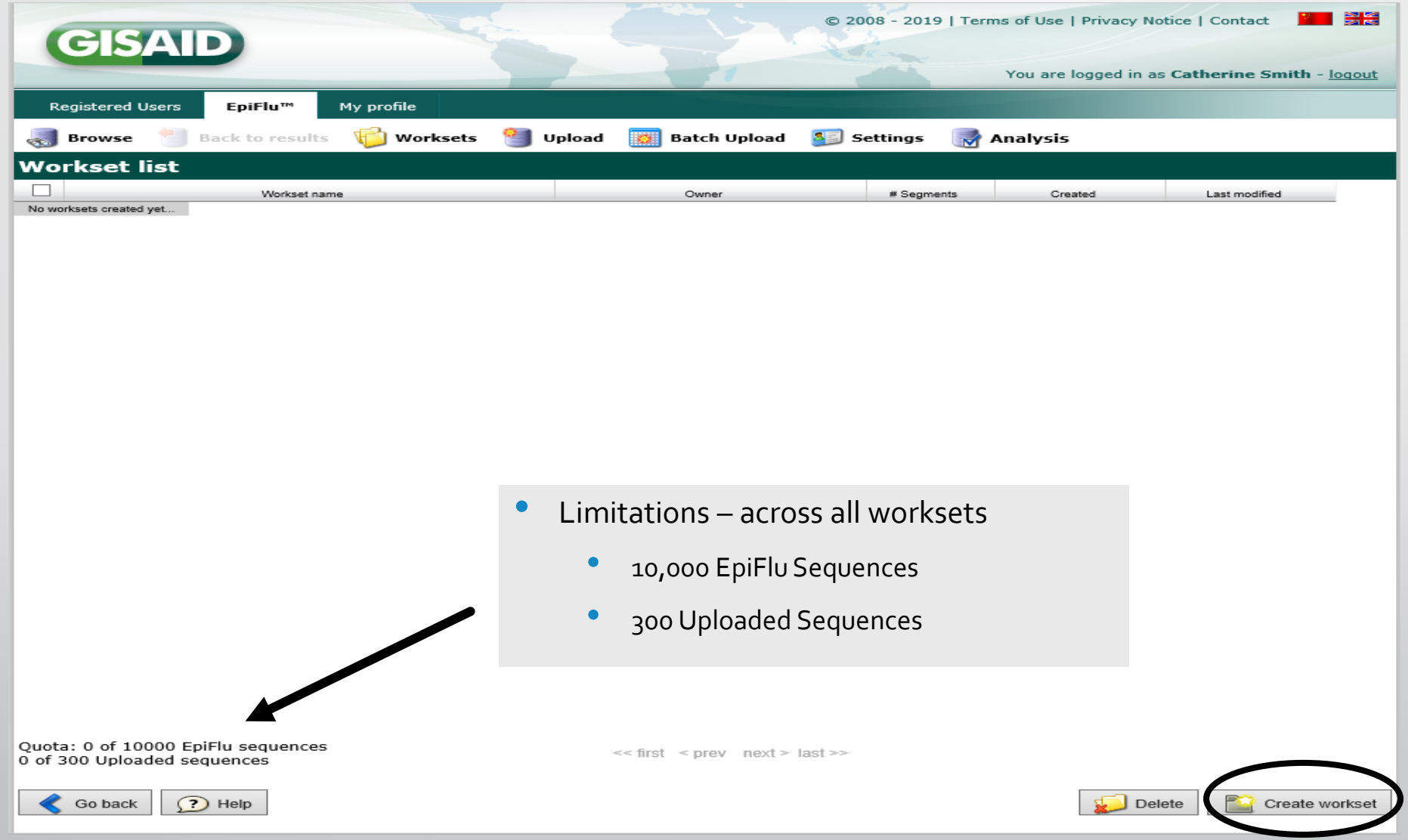
GISAID WORKSETS

Worksets

- Allow you to store sequence segments in a directory-based filing system
  - Sequences can be either from the EpiFlu database and uploaded new sequences
- Stored on the server until they are deleted by the user
- Each sequence in a workset gets its own accession number WSSXXXX.
  - This WSS-ID is unique in the system, similar to the EPIXXXX accession number in the EpiFlu database
- Provides for both personal query storage and collaboration
  - Users can invite others to participate in their worksets
- Edits performed on worksets do not affect the corresponding database entry

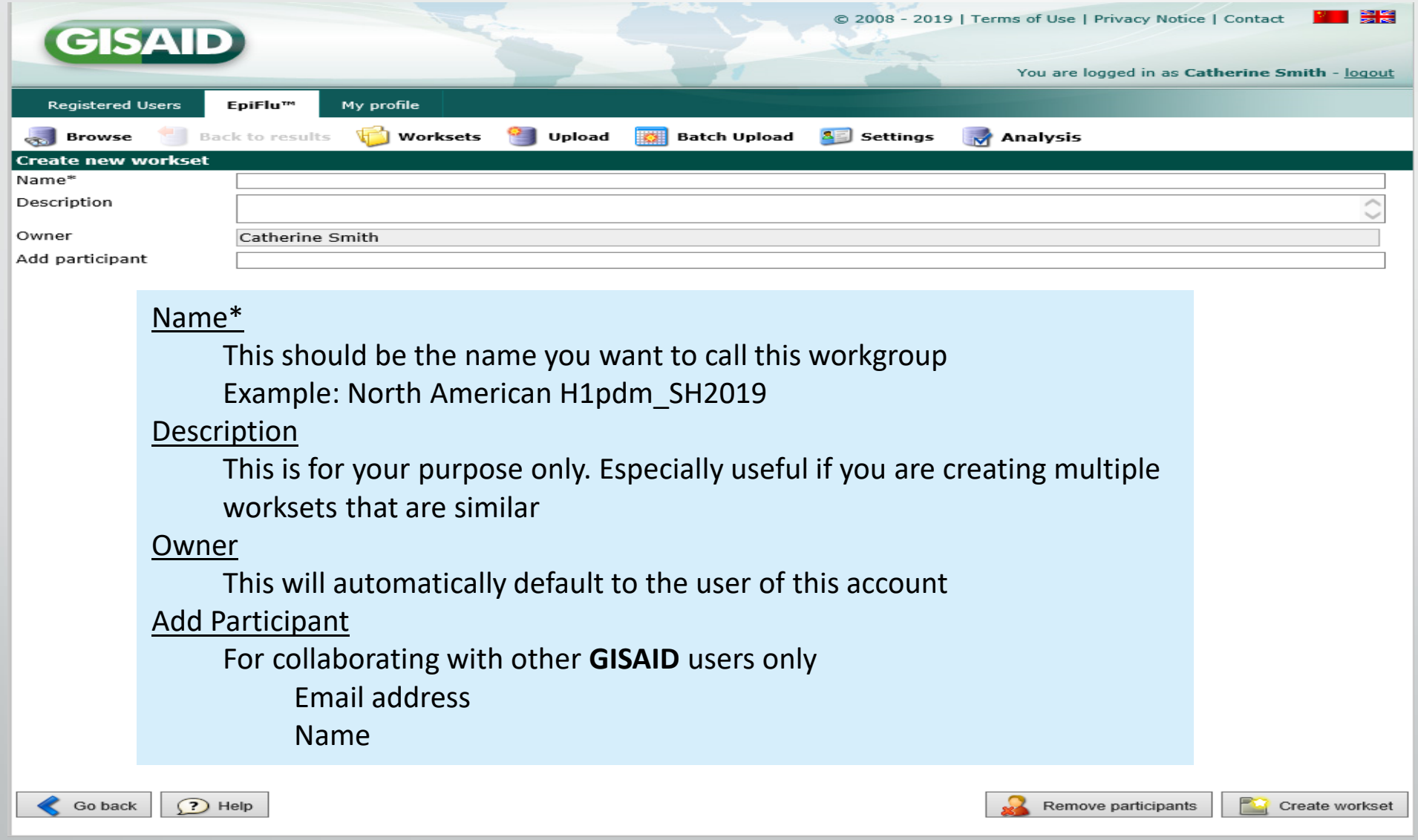


Creating a Workset



- Limitations – across all worksets
  - 10,000 EpiFlu Sequences
  - 300 Uploaded Sequences

Creating a New Workset



Name*

This should be the name you want to call this workgroup

Example: North American H1pdm_SH2019

Description

This is for your purpose only. Especially useful if you are creating multiple worksets that are similar

Owner

This will automatically default to the user of this account

Add Participant

For collaborating with other **GISAID** users only

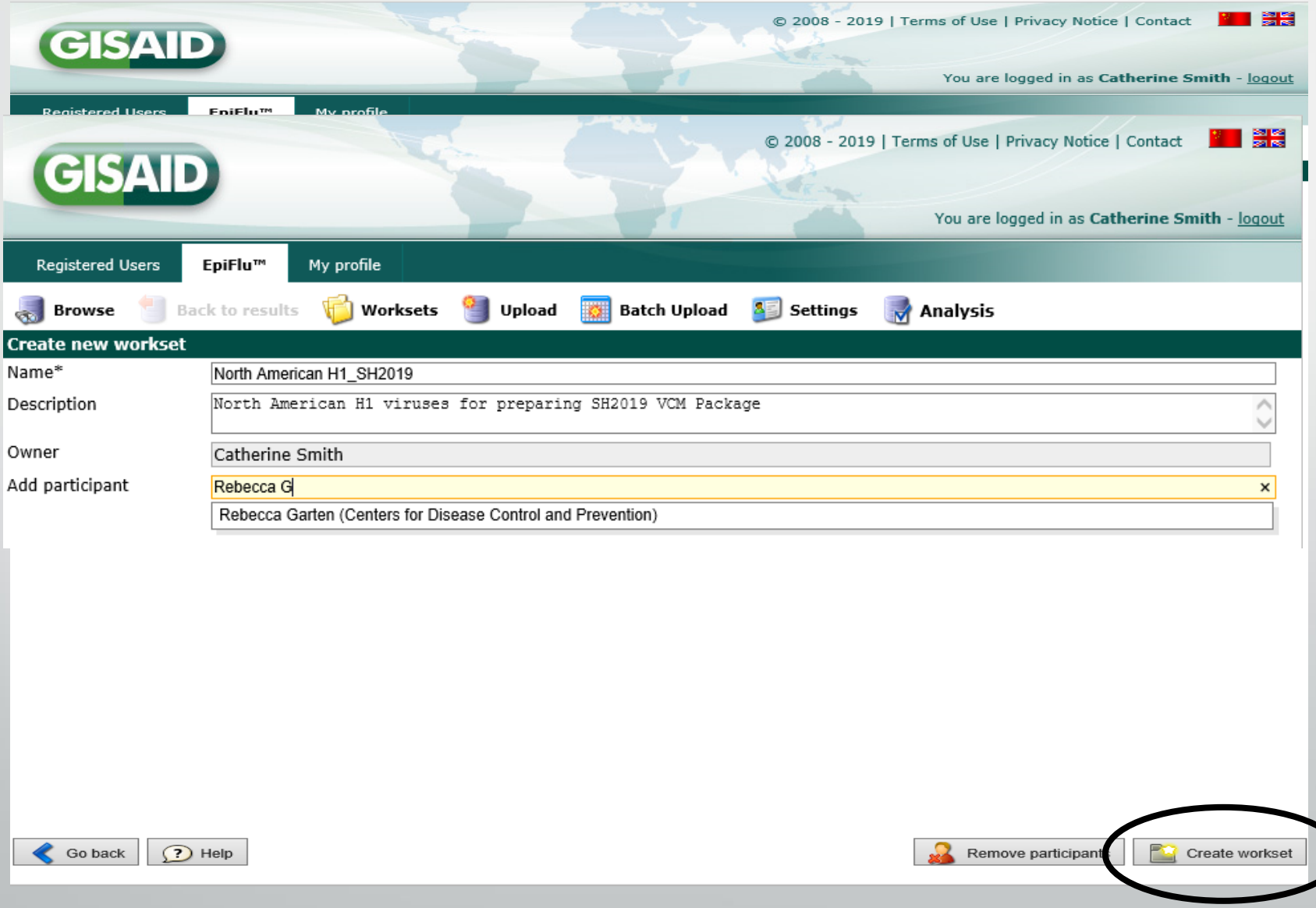
Email address

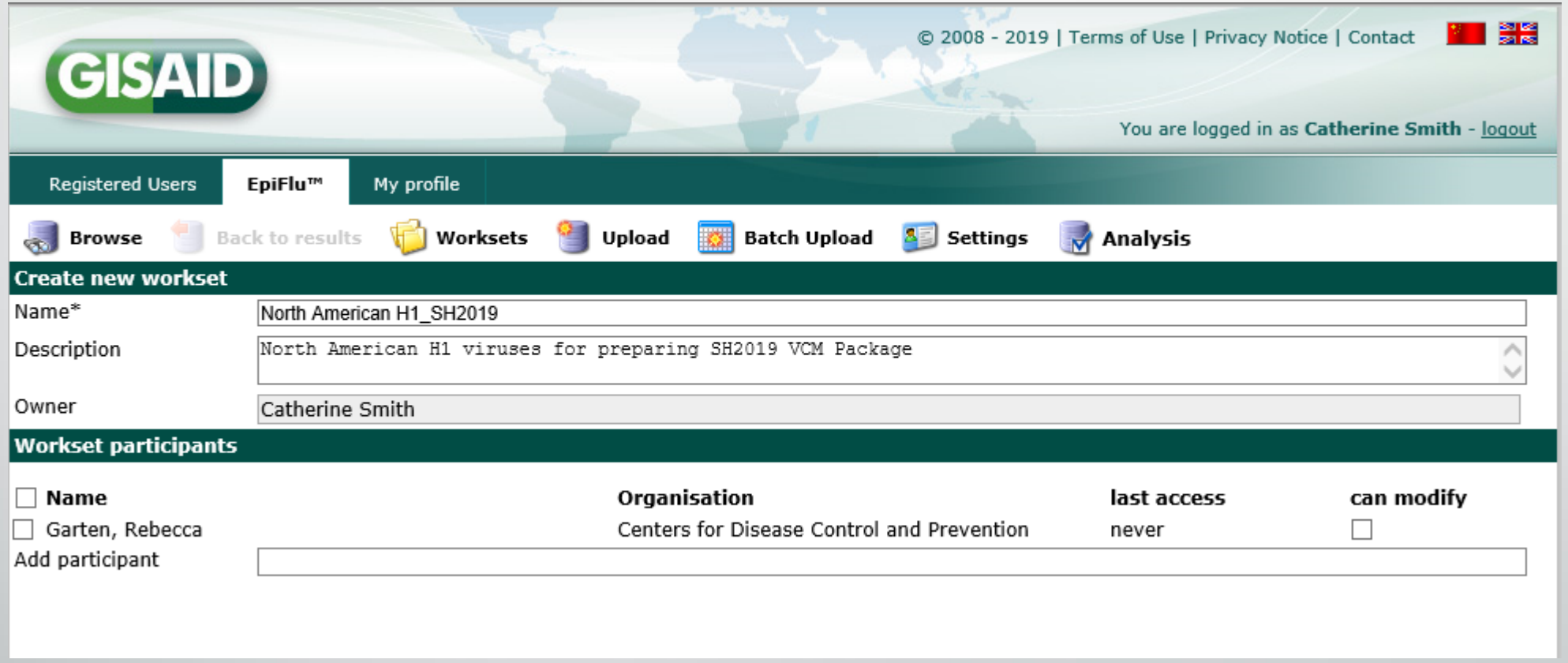
Name

Workset Listing

- This listing of worksets shows all worksets that you have created yourself or that you are participating in.
- There are five parameters in the listing, all of which can be used to sort the worksets.
  - By left-clicking on one of the parameters in the top row, worksets will be sorted according to this parameter.
  - If you click on the same parameter again, the list will be sorted in reverse order.
  - The five parameters:
    - *Workset name*
    - *Owner*
    - *#Segments*
    - *Created*
    - *Last modified*
  - The maximal number of segments allowed in all worksets of a user is restricted to 10,000 segments. The quota of segments currently contained in all of your worksets of yours and maximal number of allowed segments is shown in the bottom left corner under the listing of worksets.

Adding A Collaborator




GISAID
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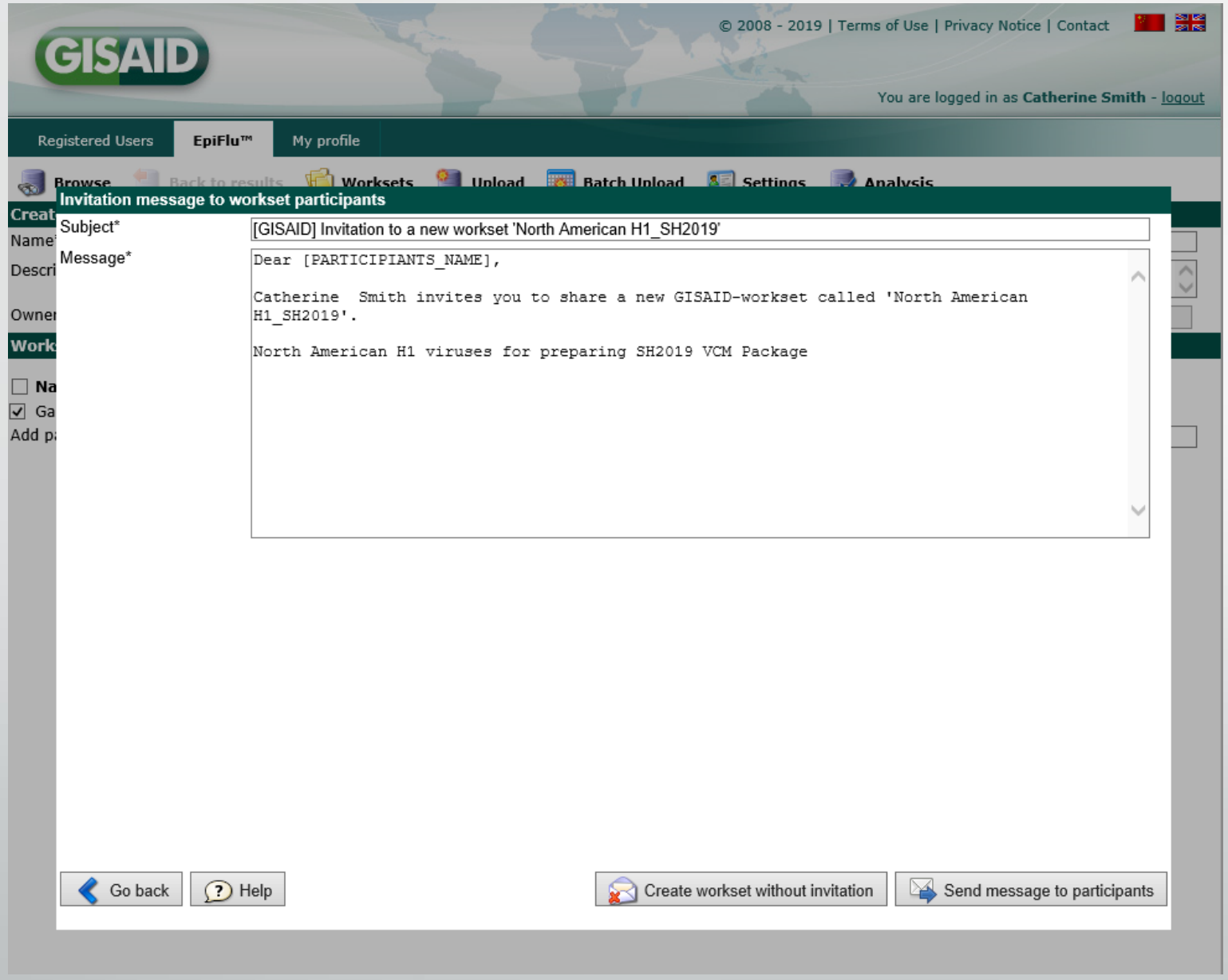
You are logged in as Catherine Smith - logout
Registered Users
EpiFlu™
My profile
Browse
Back to results
Worksets
Upload
Batch Upload
Settings
Analysis
Create new workset
Name*
North American H1_SH2019
Description
North American H1 viruses for preparing SH2019 VCM Package
Owner
Catherine Smith
Workset participants
Name
Organisation
last access
can modify
Garten, Rebecca
Centers for Disease Control and Prevention
never
Add participant


GISAID
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You are logged in as Catherine Smith - logout
Registered Users
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My profile
Browse
Back to results
Worksets
Upload
Batch Upload
Settings
Analysis
Invitation message to workset participants
Subject*
[GISAID] Invitation to a new workset 'North American H1_SH2019'
Message*
Dear [PARTICIPIANTS_NAME],
Catherine Smith invites you to share a new GISAID-workset called 'North American H1_SH2019'.
North American H1 viruses for preparing SH2019 VCM Package
Go back
Help
Create workset without invitation
Send message to participants

You are logged in as **Catherine Smith** - logout

Registered Users | **EpiFlu™** | My profile

Browse | Back to results | **Worksets** | **Upload** | **Batch Upload** | **Settings** | **Analysis**

Workset list

	Workset name	Owner	# Segments	Created	Last modified
☐	North American H1_SH2019	Catherine Smith	0	12-08-2019	12-08-2019

Edit workset

Name* North American H1_SH2019

Description North American H1 viruses for preparing SH2019 VCM Package

Owner Catherine Smith

Workset participants

Name	Organisation	last access	can modify
Catherine Smith	Centers for Disease Control and Prevention	12-08-2019	☑
Rebecca Garten	Centers for Disease Control and Prevention	never	☑
Catherine Smith	Centers for Disease Control and Prevention	never	☑

Add participant

You are logged in as **Catherine Smith** - logout

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Browse | Back to results | **Worksets** | **Upload** | **Batch Upload** | **Settings** | **Analysis**

Workset list

	Workset name	Owner	# Segments	Created	Last modified
☐	North American H1_SH2019	Catherine Smith	22	12-08-2019	12-08-2019

GISAID

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Browse | Back to results | **Worksets** | **Upload** | **Batch Upload** | **Settings** | **Analysis**

Count 52 isolates | GISAID published 149,642 isolates (659,885 sequences) | Total isolate count 282,503 isolates (1,175,898 sequences)

Basic filters

Predefined search: Select ...

Search in: (•) Released files ( ) Worksets

Search patterns:

Type	H	N	Lineage	Host	Location	
A	1	1	unknown	-all-	Asia	Saint Vincent and the Grenadines
B	2	2	pdm09	Human	Europe	Trinidad and Tobago
C	3	3	seasonal	Animal	North America	Turks and Caicos Islands
	4	4		Avian	Oceania	United States
	5	5		Chicken	South America	Virgin Islands

Additional filters

Collection date *(YYYY-MM-DD)*: From 2019-05-01 To 2019-08-01

Submission date *(YYYY-MM-DD)*: From 2019-05-01 To 2019-08-01

Originating Laboratory:
[Afghanistan, Kabul] National Public Health Laboratory
[Albania, Tirana] Institute of Public Health
[Algeria, Algiers] Institut Pasteur d'Algerie
[Argentina, Buenos Aires] CEMIC University Hospital
[Argentina, Buenos Aires] Instituto Nacional Enfermedades Infecciosas C.G.Malbran

Submitting Laboratory:
[United States, Achorage] U.S. Geological Survey Alaska Science Center
[United States, Ann Arbor] University of Michigan
[United States, Atlanta] Centers for Disease Control and Prevention
[United States, Los Angeles] University of California Los Angeles (UCLA)
[Uruguay, Montevideo] National Influenza Center, Ministry of Health

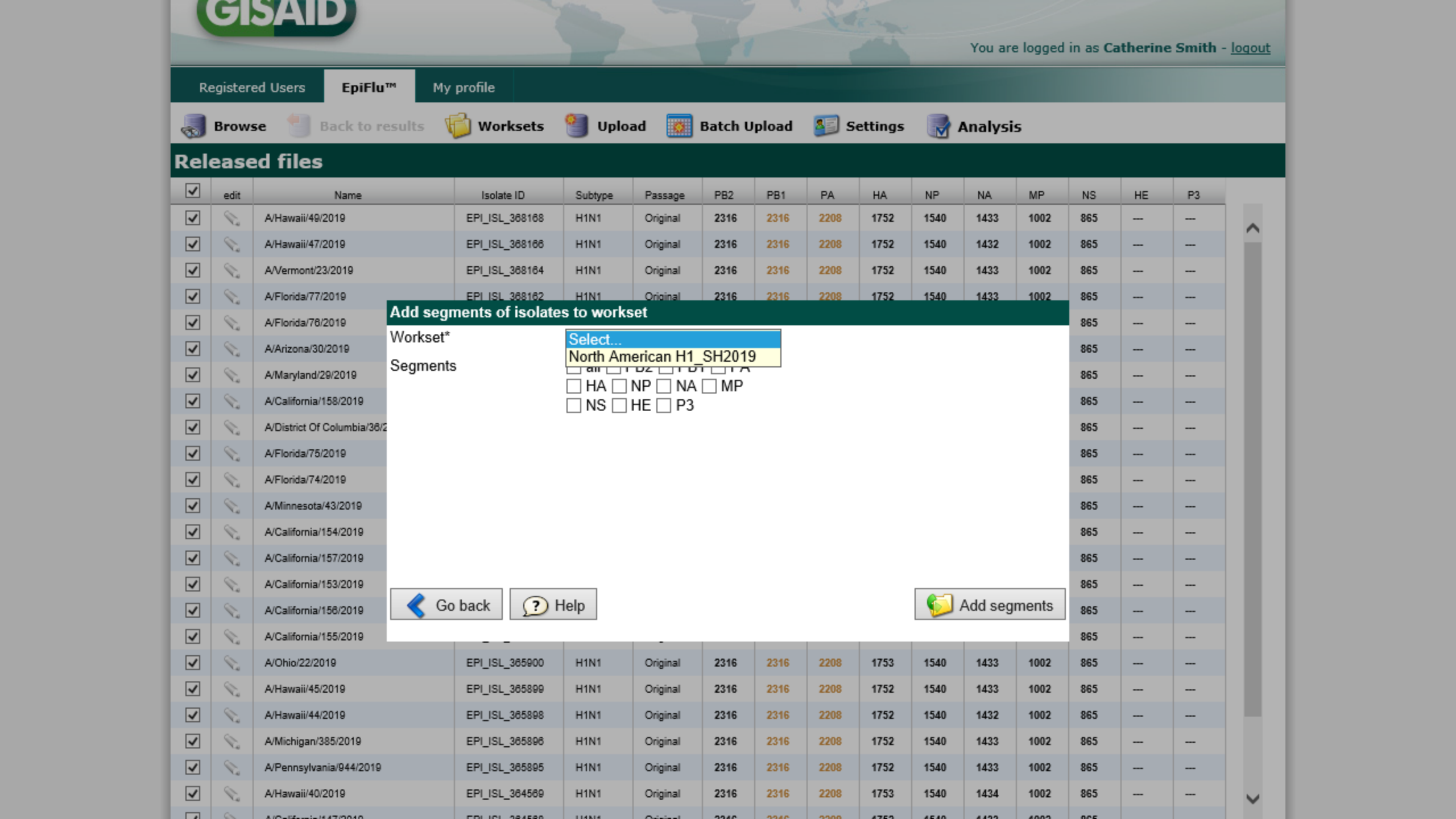
Required Segments: ☑ PB2 ☑ PB1 ☑ PA ☑ HA ☑ NP ☑ NA ☑ MP ☑ NS ☐ HE ☐ P3

☐ only complete Min Length

☐ Direct submissions to GISAID ☐ Import from public-domain (INSDC)

Released files

edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
	A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	---	---
	A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/76/2019	EPI_ISL_368160	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Arizona/30/2019	EPI_ISL_368159	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	---	---
	A/Maryland/29/2019	EPI_ISL_368158	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/158/2019	EPI_ISL_366023	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/District Of Columbia/36/2019	EPI_ISL_365910	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/75/2019	EPI_ISL_365909	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/74/2019	EPI_ISL_365908	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Minnesota/43/2019	EPI_ISL_365907	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/154/2019	EPI_ISL_365905	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/157/2019	EPI_ISL_365904	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/153/2019	EPI_ISL_365903	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/156/2019	EPI_ISL_365902	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/California/155/2019	EPI_ISL_365901	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	---	---
	A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	---	---
	A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	---	---


GISAID
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Registered Users
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Back to results
Worksets
Upload
Batch Upload
Settings
Analysis
Released files
edit
Name
Isolate ID
Subtype
Passage
PB2
PB1
PA
HA
NP
NA
MP
NS
HE
P3
A/Hawaii/49/2019 EPI_ISL_368168 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/47/2019 EPI_ISL_368166 H1N1 Original 2316 2316 2208 1752 1540 1432 1002 865 --- ---
A/Vermont/23/2019 EPI_ISL_368164 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Florida/77/2019
A/Florida/76/2019
A/Arizona/30/2019
A/Maryland/29/2019
A/California/158/2019
A/District Of Columbia/36/2
A/Florida/75/2019
A/Florida/74/2019
A/Minnesota/43/2019
A/California/154/2019
A/California/157/2019
A/California/153/2019
A/California/156/2019
A/California/155/2019
Add segments of isolates to workset
Workset*
Select...
North American H1_SH2019
Segments
HA NP NA MP
NS HE P3
Go back
Help
Add segments
A/Ohio/22/2019 EPI_ISL_365900 H1N1 Original 2316 2316 2208 1753 1540 1433 1002 865 --- ---
A/Hawaii/45/2019 EPI_ISL_365899 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/44/2019 EPI_ISL_365898 H1N1 Original 2316 2316 2208 1752 1540 1432 1002 865 --- ---
A/Michigan/385/2019 EPI_ISL_365896 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Pennsylvania/944/2019 EPI_ISL_365895 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/40/2019 EPI_ISL_364569 H1N1 Original 2316 2316 2208 1753 1540 1434 1002 865 --- ---

Released files

edit	Name	Isolate ID	Subtype	Passage	PB2	PB1	PA	HA	NP	NA	MP	NS	HE	P3
	A/Hawaii/49/2019	EPI_ISL_368168	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/47/2019	EPI_ISL_368166	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	---	---
	A/Vermont/23/2019	EPI_ISL_368164	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/77/2019	EPI_ISL_368162	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Florida/76/2019											865	---	---
	A/Arizona/30/2019											865	---	---
	A/Maryland/29/2019											865	---	---
	A/California/158/2019											865	---	---
	A/District Of Columbia/36/2											865	---	---
	A/Florida/75/2019											865	---	---
	A/Florida/74/2019											865	---	---
	A/Minnesota/43/2019											865	---	---
	A/California/154/2019											865	---	---
	A/California/157/2019											865	---	---
	A/California/153/2019											865	---	---
	A/California/156/2019											865	---	---
	A/California/155/2019											865	---	---
	A/Ohio/22/2019	EPI_ISL_365900	H1N1	Original	2316	2316	2208	1753	1540	1433	1002	865	---	---
	A/Hawaii/45/2019	EPI_ISL_365899	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/44/2019	EPI_ISL_365898	H1N1	Original	2316	2316	2208	1752	1540	1432	1002	865	---	---
	A/Michigan/385/2019	EPI_ISL_365896	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Pennsylvania/944/2019	EPI_ISL_365895	H1N1	Original	2316	2316	2208	1752	1540	1433	1002	865	---	---
	A/Hawaii/40/2019	EPI_ISL_364569	H1N1	Original	2316	2316	2208	1753	1540	1434	1002	865	---	---

Add segments of isolates to workset

Workset* North American H1_SH2019

Segments
☑ all ☑ PB2 ☑ PB1 ☑ PA
☑ HA ☑ NP ☑ NA ☑ MP
☑ NS ☑ HE ☑ P3

Go back | Help | Add segments

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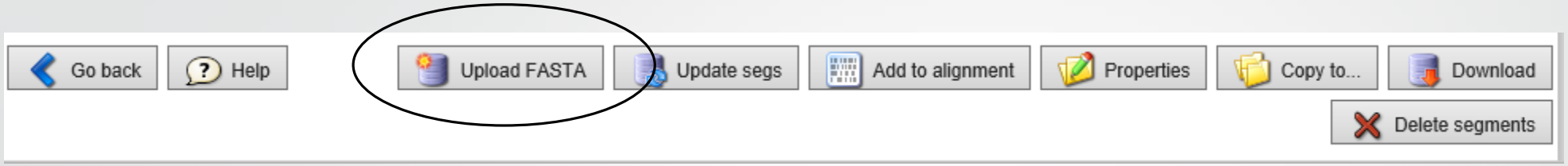
Browse | Back to results | Worksets | Upload | Batch Upload | Settings | Analysis

Workset list

	Workset name	Owner	# Segments	Created	Last modified
☐	North American H1_SH2019	Catherine Smith	438	12-08-2019	12-08-2019

Uploading Data to Worksets



- Additional sequences can be added to a workset by uploading a fasta file with sequences.
- You can only upload data to worksets that are not shared
- The system automatically determines the type and subtype of influenza virus segments while the fasta file is being uploaded.

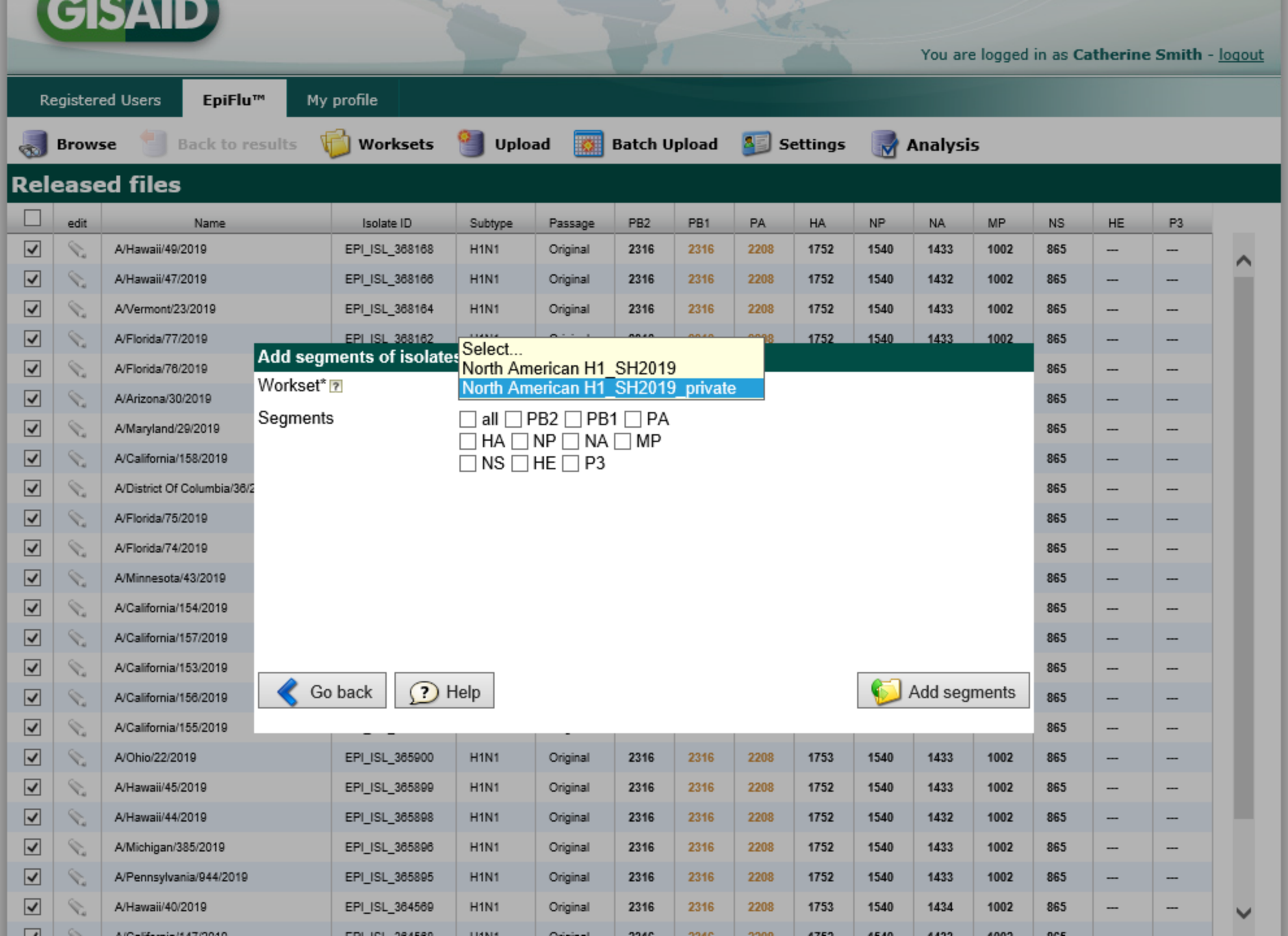
Workset 'North American H1_SH2019'

edit	WSS-ID	EPI-Segment-ID	Seg	Seg identifier	Length	Type	Copied from
	WSS1976162	EPI1478538	NA	A/Manitoba/RV2027/2019 NA.seq	1410	A / N1	EPI_ISL_362017: A/Manitoba/RV2027/2019 (A/H1N1 pdm09)
	WSS1976163	EPI1478539	HA	A/Manitoba/RV2027/2019 HA.seq	1650	A / H1	EPI_ISL_362017: A/Manitoba/RV2027/2019 (A/H1N1 pdm09)
	WSS1976174	EPI1492514	NA	A/Saskatchewan/RV2230/2019 N/	1410	A / N1	EPI_ISL_365175: A/Saskatchewan/RV2230/2019 (A/H1N1 pdm09)
	WSS1976175	EPI1492515	HA	A/Saskatchewan/RV2230/2019 H/	1650	A / H1	EPI_ISL_365175: A/Saskatchewan/RV2230/2019 (A/H1N1 pdm09)
	WSS1976236	EPI1480447	NP	3026052183_ZZYUMAWN_v1_5	1540	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
	WSS1976237	EPI1480448	NS	3026052183_ZZYUMAWN_v1_8	865	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
	WSS1976238	EPI1480449	MP	3026052183_ZZYUMAWN_v1_7	1002	A	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)
	WSS1976263	EPI1487914	NS	3026052241_ZZYUMBCN_v1_8	865	A	EPI_ISL_364057: A/California/143/2019 (A/H1N1 pdm09)
	WSS1976264						/A/H1N1 pdm09)
	WSS1976265						/A/H1N1 pdm09)
	WSS1976266						/A/H1N1 pdm09)
	WSS1976267						/A/H1N1 pdm09)
	WSS1976268	EPI1490691	PB1	3026052243_ZZYUMBEI_v1_2	2316	A	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
	WSS1976269	EPI1490692	HA	3026052243_ZZYUMBEI_v1_4	1752	A / H1	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
	WSS1976270	EPI1487919	NP	3026052243_ZZYUMBEI_v1_5	1540	A	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
	WSS1976275	EPI1487924	NA	3026052243_ZZYUMBEI_v1_6	1433	A / N1	EPI_ISL_364058: A/Nevada/29/2019 (A/H1N1 pdm09)
	WSS1976276	EPI1490716	PA	3026052284_ZZYUMBKI_v1_3	2208	A	EPI_ISL_364059: A/California/144/2019 (A/H1N1 pdm09)
	WSS1976277	EPI1490717	PB1	3026052284_ZZYUMBKI_v1_2	2316	A	EPI_ISL_364059: A/California/144/2019 (A/H1N1 pdm09)
	WSS1976165	EPI1484611	HA	A/Ontario/RV2035/2019 HA.seq	1650	A / H1	EPI_ISL_363374: A/Ontario/RV2035/2019 (A/H1N1 pdm09)
	WSS1976164	EPI1484610	NA	A/Ontario/RV2035/2019 NA.seq	1410	A / N1	EPI_ISL_363374: A/Ontario/RV2035/2019 (A/H1N1 pdm09)
	WSS1976176	EPI1493328	HA	A/Ontario/RV2232/2019 HA.seq	1650	A / H1	EPI_ISL_365292: A/Ontario/RV2232/2019 (A/H1N1 pdm09)
	WSS1976177	EPI1493327	NA	A/Ontario/RV2232/2019 NA.seq	1410	A / N1	EPI_ISL_365292: A/Ontario/RV2232/2019 (A/H1N1 pdm09)
	WSS1976242	EPI1480453	NA	3026052183_ZZYUMAWN_v1_6	1433	A / N1	EPI_ISL_362338: A/Minnesota/37/2019 (A/H1N1 pdm09)

Message

This workset is shared with other EpiFlu users and therefore you cannot add private segments.

OK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Batch Upload
Settings
Analysis
Released files
edit
Name
Isolate ID
Subtype
Passage
PB2
PB1
PA
HA
NP
NA
MP
NS
HE
P3
A/Hawaii/49/2019 EPI_ISL_368168 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/47/2019 EPI_ISL_368166 H1N1 Original 2316 2316 2208 1752 1540 1432 1002 865 --- ---
A/Vermont/23/2019 EPI_ISL_368164 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Florida/77/2019
A/Florida/76/2019
A/Arizona/30/2019
A/Maryland/29/2019
A/California/158/2019
A/District Of Columbia/36/2
A/Florida/75/2019
A/Florida/74/2019
A/Minnesota/43/2019
A/California/154/2019
A/California/157/2019
A/California/153/2019
A/California/156/2019
A/California/155/2019
Add segments of isolates
Workset*
Select...
North American H1_SH2019
North American H1_SH2019_private
Segments
all PB2 PB1 PA
HA NP NA MP
NS HE P3
Go back
Help
Add segments
A/Ohio/22/2019 EPI_ISL_365900 H1N1 Original 2316 2316 2208 1753 1540 1433 1002 865 --- ---
A/Hawaii/45/2019 EPI_ISL_365899 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/44/2019 EPI_ISL_365898 H1N1 Original 2316 2316 2208 1752 1540 1432 1002 865 --- ---
A/Michigan/385/2019 EPI_ISL_365896 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Pennsylvania/944/2019 EPI_ISL_365895 H1N1 Original 2316 2316 2208 1752 1540 1433 1002 865 --- ---
A/Hawaii/40/2019 EPI_ISL_364569 H1N1 Original 2316 2316 2208 1753 1540 1434 1002 865 --- ---

GISAID

You are logged in as **Catherine Smith** - logout

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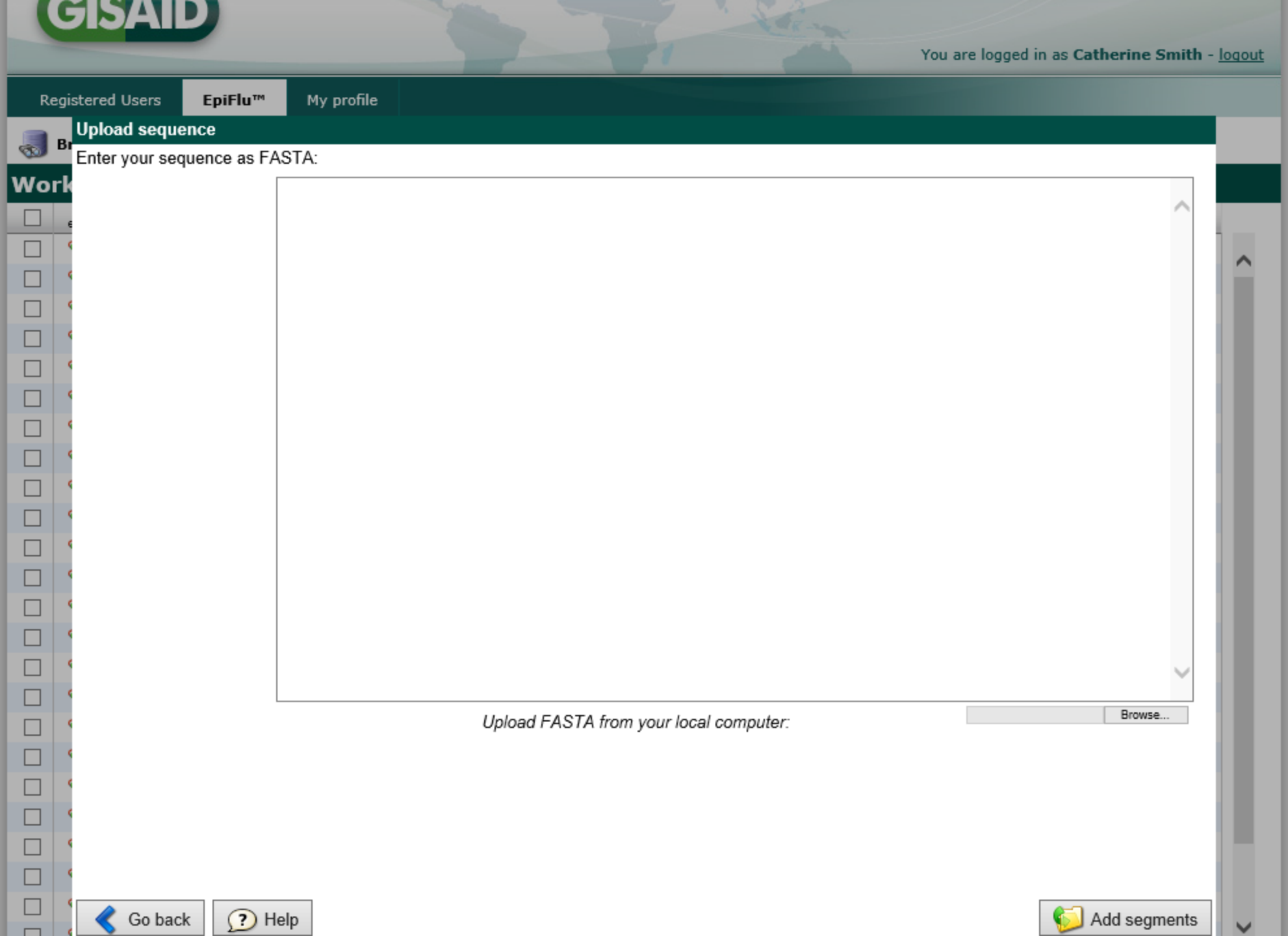
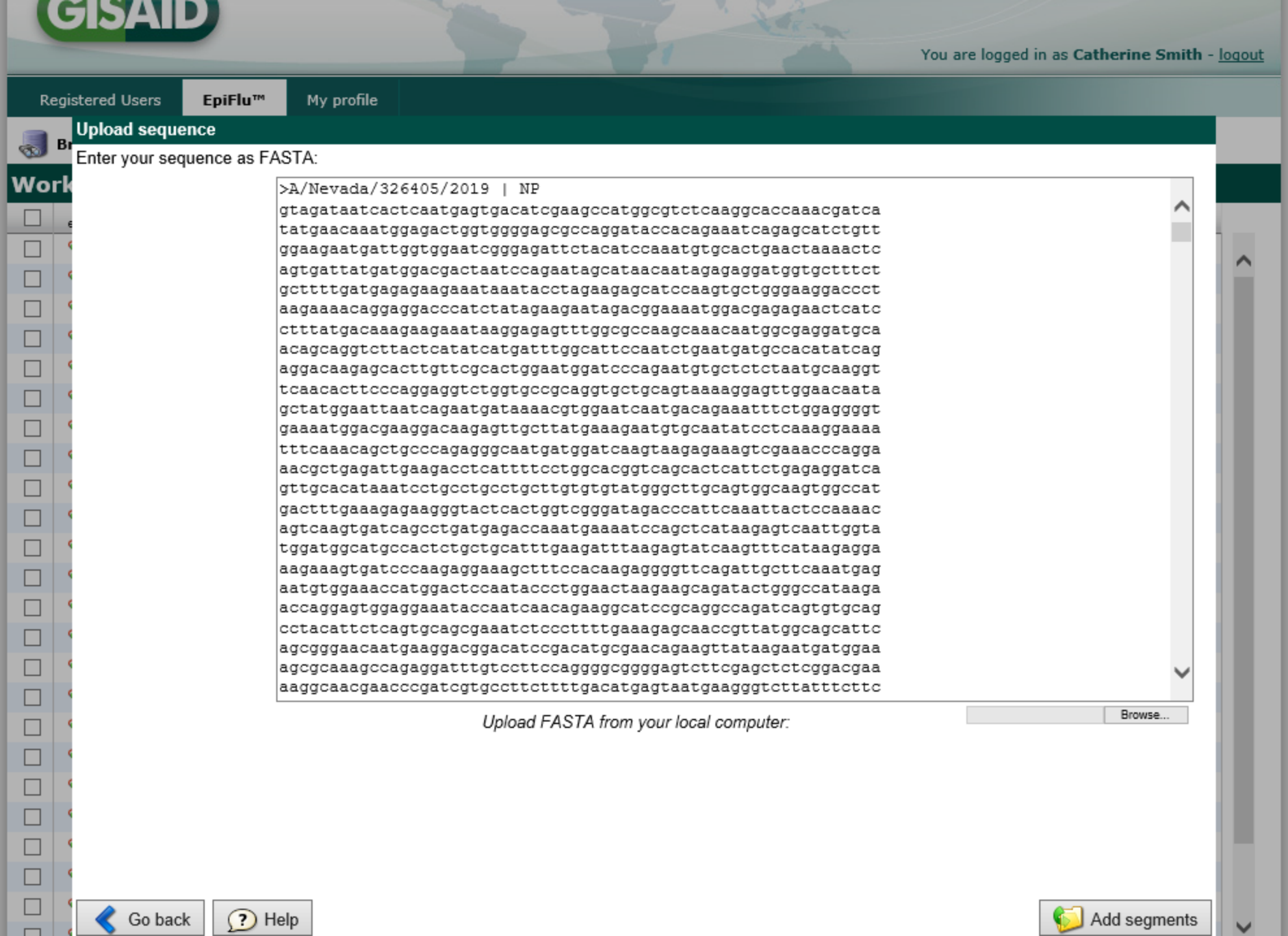
Browse | Back to results | Worksets | Upload | Batch Upload | Settings | Analysis

Workset list

	Workset name	Owner	# Segments	Created	Last modified
☐	North American H1_SH2019_private	Catherine Smith	416	12-08-2019	12-08-2019
☐	North American H1_SH2019	Catherine Smith	438	12-08-2019	12-08-2019


GISAID
You are logged in as Catherine Smith - logout
Registered Users
EpiFlu™
My profile
Upload sequence
Enter your sequence as FASTA:
Upload FASTA from your local computer:
Browse...
Go back
Help
Add segments


GISAID
You are logged in as Catherine Smith - logout
Registered Users
EpiFlu™
My profile
Upload sequence
Enter your sequence as FASTA:
>A/Nevada/326405/2019 | NP
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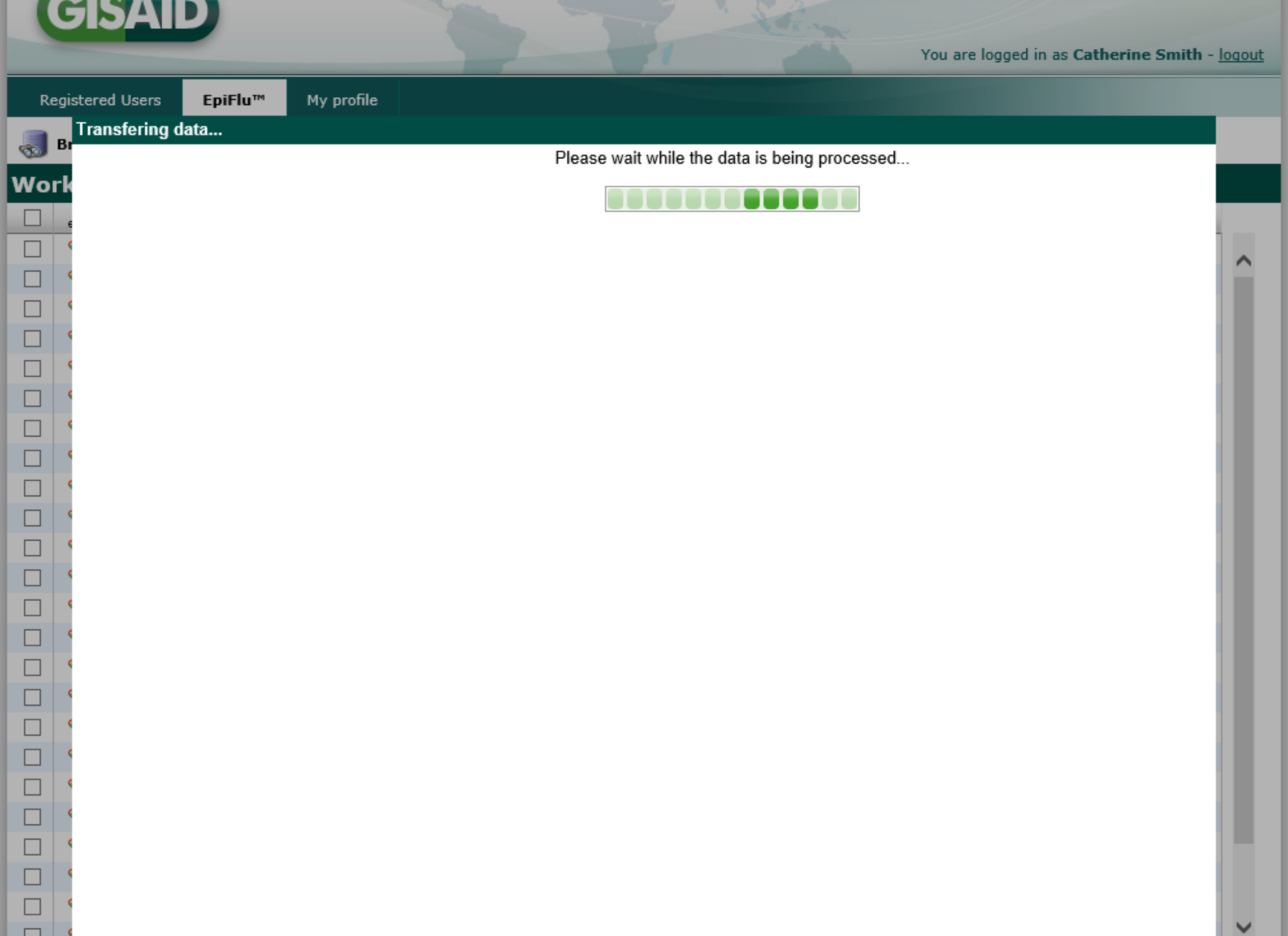
Browse...
Upload FASTA from your local computer:
Go back
Help
Add segments


GISAID
You are logged in as Catherine Smith - logout
Registered Users
EpiFlu™
My profile
Transfering data...
Please wait while the data is being processed...

Workset 'North American H1_SH2019_private'

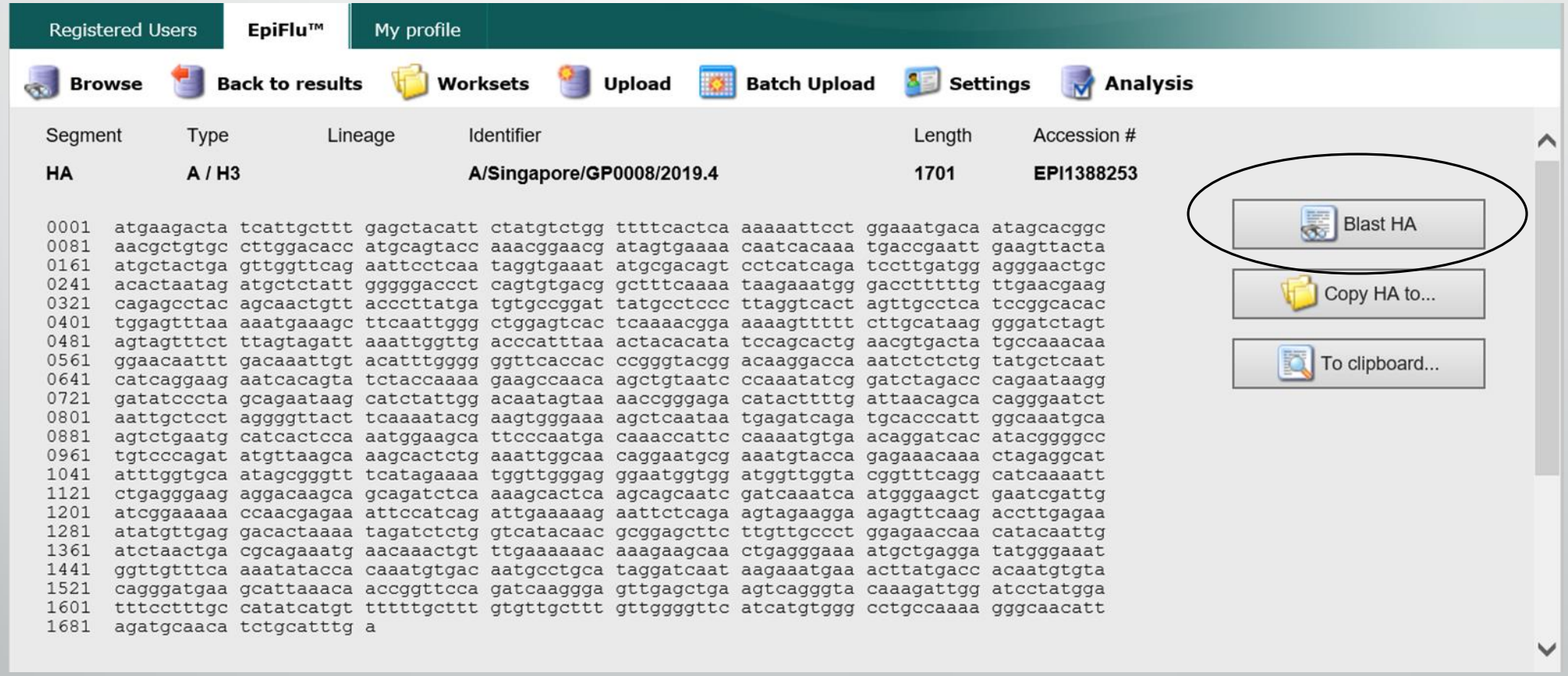
edit	WSS-ID	EPI-Segment-ID	Seg	Seg identifier	Length	Type	Copied from
	WSS1976957	EPI1507822	PB2	3026052691_ZZYUMCOW_v1_1	2316	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976958	EPI1507823	PB1	3026052691_ZZYUMCOW_v1_2	2316	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976898	EPI1496709	NA	3026052611_ZZYUMCI5_v1_6	1433	A / N1	EPI_ISL_365903: A/California/153/2019 (A/H1N1 pdm09)
	WSS1976899	EPI1496710	HA	3026052611_ZZYUMCI5_v1_4	1752	A / H1	EPI_ISL_365903: A/California/153/2019 (A/H1N1 pdm09)
	WSS1976900	EPI1496713	PB1	3026052612_ZZYUMCI7_v1_2	2316	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976901	EPI1496711	PA	3026052612_ZZYUMCI7_v1_3	2208	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976902	EPI1496712	PB2	3026052612_ZZYUMCI7_v1_1	2316	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976959	EPI1507818	NP	3026052691_ZZYUMCOW_v1_5	1540	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976960	EPI1507819	NS	3026052691_ZZYUMCOW_v1_8	865	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976961	EPI1507820	MP	3026052691_ZZYUMCOW_v1_7	1002	A	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976903	EPI1497703	NP	3026052612_ZZYUMCI7_v1_5	1540	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976904	EPI1497704	NS	3026052612_ZZYUMCI7_v1_8	865	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976905	EPI1497705	MP	3026052612_ZZYUMCI7_v1_7	1002	A	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976962	EPI1507824	NA	3026052691_ZZYUMCOW_v1_6	1433	A / N1	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976963	EPI1507825	HA	3026052691_ZZYUMCOW_v1_4	1752	A / H1	EPI_ISL_368158: A/Maryland/29/2019 (A/H1N1 pdm09)
	WSS1976964	EPI1507829	PA	3026052693_ZZYUMCQE_v1_3	2208	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
	WSS1976965	EPI1507830	PB2	3026052693_ZZYUMCQE_v1_1	2316	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
	WSS1976966	EPI1507831	PB1	3026052693_ZZYUMCQE_v1_2	2316	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
	WSS1976906	EPI1497706	NA	3026052612_ZZYUMCI7_v1_6	1433	A / N1	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976907	EPI1497707	HA	3026052612_ZZYUMCI7_v1_4	1752	A / H1	EPI_ISL_365904: A/California/157/2019 (A/H1N1 pdm09)
	WSS1976967	EPI1507826	NP	3026052693_ZZYUMCQE_v1_5	1540	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
	WSS1976968	EPI1507827	NS	3026052693_ZZYUMCQE_v1_8	865	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)
	WSS1976969	EPI1507828	MP	3026052693_ZZYUMCQE_v1_7	1002	A	EPI_ISL_368159: A/Arizona/30/2019 (A/H1N1 pdm09)

Data Updates in Worksets

- This button in the workset dialog allows for updating sequences in the workset, if they have been changed in the EpiFlu database after they have been copied to the workset.
- Since submitters may submit data to GISAID that may need to be edited/changed, this tool will allow you to update your workset to reflect the changes

BLAST

- Blast analysis can be performed with all sequences in the workset.
- You can blast sequences against sequences in worksets.
- In the Blast dialog the user can choose the Blast database he or she wants to use
  - One can choose between worksets and the entire EpiFlu database and databases even can be combined:



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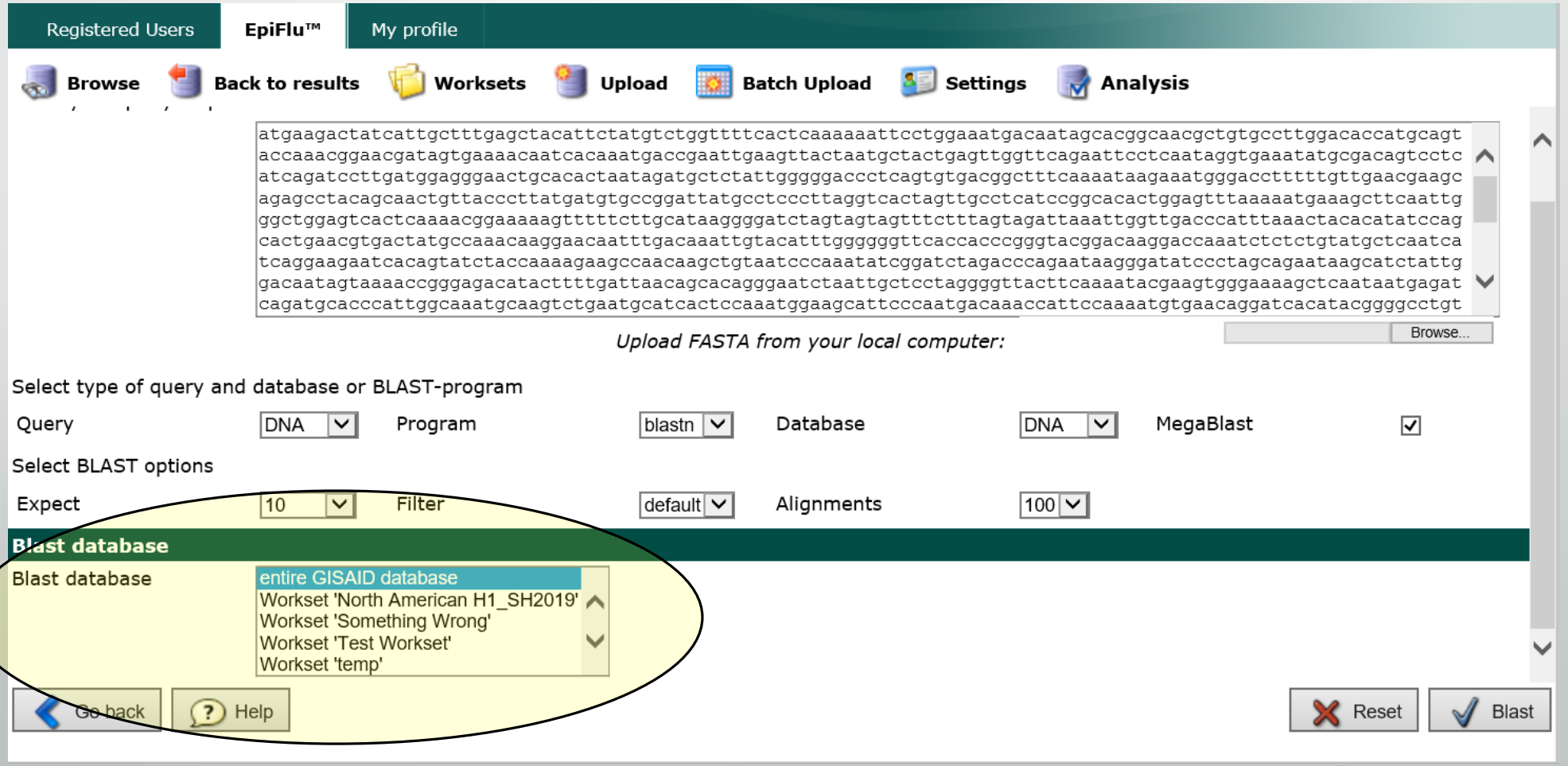

?

Workset Exercise

- From the browse page, select the Workset Tab
- Create a workset that you will save your search
  - **Workset**
  - **Create Workset**
  - Create a workset by entering **TEST** in the name field and then select **Create Workset**
  - You will then see an empty workset with the name 'TEST' you just created
- Go back to **Browse**
- Search for the following data to add to a workset 'TEST' you just made
  - Search for human H_3N_2 viruses, from Singapore, collected since January 1, 2019 – all gene segments
- From the **Search Results** select all of the sequences to add to the workset
  - At the bottom of the search results page, select **Copy To**
  - You will then see the Workset page with a drop-down of the existing Worksets in your account
  - Choose the **TEST** workset
  - Choose **All** (segments) and then **Add Segments**
  - You will now see a populated **TEST** workset
- You can then continue to add relevant data to that workset in the same manner, except that you would not have to create the workset again, you would just search for additional data and then, from the **Search Results**, you would **Copy To** the **TEST** workset just like above.