**S1 Data set**

\* All user ids are anonymized

\* @username and hashtags are cleaned from original tweet content. You can retrieve original tweets content by API with provided tweet ids

\* Delimiter is '\t' for all files.

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**Cleaned tweet contents by event:**

**Location:** ./Data/TweetIdByEvent/\*.txt (Each file contains original tweet ids for an event. You can use twitter API to retrieve tweet content.)

**Format:** anonymized\_userid tweetid tweet\_content time

**Description**

anonymized\_userid: This value is anonymized user id who posted the contents. Data type is integer.

tweet\_id: This value is original tweet id enables people to retrieve original tweets. Data type is integer.

tweet\_content: This value is tweet text after removing @username and hashtags. Data type is string.

time: This value is time when the tweet is posted. Data type is string.

**Example**: 43065159 1994490865 Air France says at least 1 Canadian on board plane that flew into wall of storms somewhere over the Atlantic Ocean between Brazil amp Africa 2009-06-01 19:00:07

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**User information:**

**Location:** ./Data/sub\_user\_info\_share.txt

**Format:** anonymized\_userid nfollowers nfollowees ntweets

**Description**

anonymized\_userid: This value is anonymized user id who posted the contents. Data type is integer.

nfollowers: This value is number of followers of corresponding user. Data type is integer.

nfollowers: This value is number of friends (followees) of corresponding user. Data type is integer.

nfollowers: This value is number of posted contents of corresponding user. Data type is integer.

Example: 242 605 94 189

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**Link information:**

**Location:** ./Data/links.txt (Include all follower relationships among participated users for any event and their followers. You can derive networks from this file. If you cannot see the file, please read ‘data availability’ description in the manuscript page. You can download this via mentioned link.)

**Format:** anonymized\_userid\_from anonymized\_userid\_to

**Description**

anonymized\_userid\_from follows anonymized\_userid\_to

**Example:** 242 605