

Python Workshop

How we use python

Mike Fienen

U.S. Geological Survey
Wisconsin Water Science Center, Middleton, Wisconsin USA

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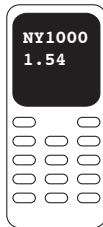
How we use python

1 Social.Water

2 cloudPEST

Social.Water

Social.Water is a citizen-science project in support of CrowdHydrology. The code is all written in Python.



→ Google voice

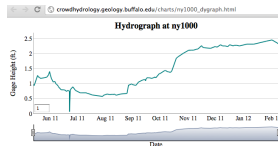
imap + python

Data.csv

Date and Time	Gage Height (Et)	POSIX Stamp
5/12/11 14:34	0.98	1305228874
5/13/11 12:03	0.94	1305306204
5/17/11 8:07	1.28	1305637633
5/18/11 8:06	1.22	1305723966
5/19/11 8:18	1.22	1305811110
...

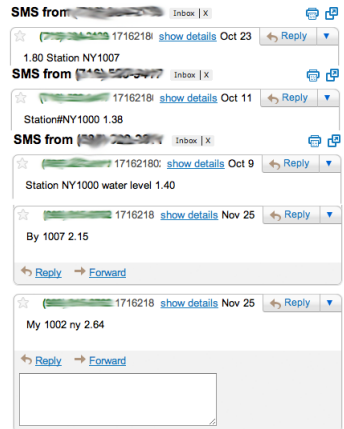
CrowdHydrology

POWERED BY:
social.water



Social.Water—What Python Provides

- Decrypt a password
- Log in to IMAP email account
- Read all new messages
- Parse all new messages
- Perform fuzzy search on gage #
- Write and display results on Web





**cloudPEST – A Python Module for Cloud-Computing
Deployment of PEST, a Program for Parameter Estimation**

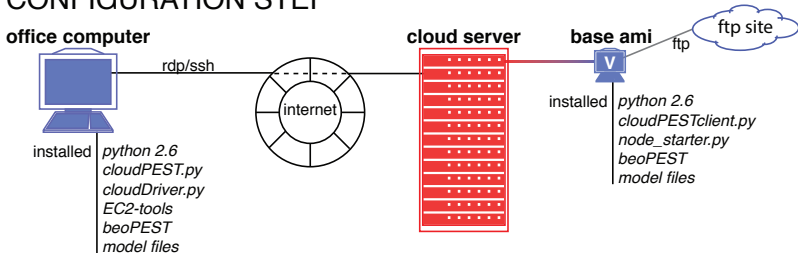


Open-File Report 2011–1062

U.S. Department of the Interior
U.S. Geological Survey

cloudPEST

CONFIGURATION STEP



cloudPEST

PRODUCTION RUNS

