

Q & A (3)

observation package

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CEE 696

1. HOB package

HOB package

observation at specified locations

Can we generate an additional text file that contains a list of simulated values (ex. hydraulic heads) at specified locations (like observation wells)?

HOB package

```
# Add HOB package to the MODFLOW model
obs_data= []
nobs = 3 # let's say number of obs, nobs is 3

layervals = [0,0,0]; rowvals = [4,5,6]; colvals = [4,5,6]
obsvals = [10,20,30]

# define observation locations and their values & create
for i in range(0,nobs):
    obs = flopy.modflow.HeadObservation(mf,
        layer=layervals[i], row=rowvals[i],
        column=colvals[i], time_series_data=[[0,obsvals[i]]])
    obs_data.append(obs)

# add HOB package to the MODFLOW model
hob = flopy.modflow.ModflowHob(mf, iuhobsv = 7,
    hobsdry=-999, obs_data = obs_data)
```

"SIMULATED EQUIVALENT"	"OBSERVED VALUE"	"OBSERVATION NAME"
9.25377082825E+00	1.00000000000E+01	HOBS
9.06813335419E+00	2.00000000000E+01	HOBS
8.88309574127E+00	3.00000000000E+01	HOBS