

PATH3D: Amendments to the documentation of Version 3.0

Christopher J. Neville

Latest update: November 13, 2003

1. Version of MODFLOW (pages 2-1 and 3-1)

PATH3D works with version of MODFLOW described in McDonald and Harbaugh (1988) [*USGS TWI 6-A1*]. PATH3D accommodates the following extensions:

- BCF2 rewetting package; and
- STR1 streamflow routing package.

2. Space requirement (page 3-4)

The required size of the Y array. LENY, can be estimated using:

$$LENY \approx [(10 \text{ to } 15) \times NNODES] + [6 * MAXPART]$$

3. Input instructions (page 3-4)

The capabilities of PATH3D have been extended considerably with Version 4.6, and the input instructions have been modified accordingly. A revised sheet of instructions has been prepared.

4. Particle tracking parameter EPS (page 3-7)

The particle tracking parameter EPS is not an error criterion. It is not necessarily true that a smaller value of EPS yield more accurate tracking. The convergence test suggested in the documentation implies that the accuracy of tracking always increases as EPS decreases. In our experience, we have found that erroneous results can be obtained if EPS is set too low.

5. Steps in running PATH3D (page 3-17)

- Run MODFLOW
- Run PM (PostMODF)
- Add arrays to BCF Package input file
- Create particle tracking input file
- Run PATH3D
- Run P3DPLOT (if NTRKOP > 0)
- Run P3DFRONT (if NFRONT > 0)
- Run P3DCAPT (if INCAPT > 0)