

	Comparison of 500K <u><a href="#">GeoidHeights.dat.gz</a></u> tests for 2 PyGeodesy interpolators <u><a href="#">GeoidKarney</a></u> (Karney's C++ class <code>Geoid</code> transcoded to Python) and <u><a href="#">GeoidPGM</a></u> (based on SciPy/NumPy's <code>cubic RectBivariateSpline</code> ).				
<b><i>pygeodesy.GeoidKarney</i></b>					
	<b><i>egm2008-1.pgm</i></b>		<b><i>egm96-5.pgm</i></b>		<b><i>egm84-15.pgm</i></b>
<b>Eps Max*</b>	0.002186		0.002603		0.017281
<b>Eps Mean*</b>	0.000533		0.000539		0.000821
<b>Eps Stdev*</b>	0.000372		0.000377		0.000807
Python 2.7.16	263.259		261.003		secs**1
Python 3.7.2	148.373		150.067		secs**1
Python 3.8.10	48.406		47.955		secs**2
Python 3.9.6	137.616		82.536		secs**3
Python 3.10.1	26.411		25.888		secs**4
PyPy 6 / 2.7.13	67.497		67.611		secs**1
PyPy 6 / 3.5.3	88.427		83.209		secs**1
<b><i>pygeodesy.GeoidPGM</i></b>					
	<b><i>egm2008-1.pgm</i></b>		<b><i>egm96-5.pgm</i></b>		<b><i>egm84-15.pgm</i></b>
<b>Eps Max*</b>	0.010985		0.017929		0.022971
<b>Eps Mean*</b>	0.000629		0.000631		0.000637
<b>Eps Stdev*</b>	0.000421		0.000425		0.000445
Python 2.7.16	121.390***		49.753		secs**1
Python 3.7.2	113.012***		40.963		secs**1
Python 3.8.10	35.922***		15.566		secs**2
<p>*) <b>Eps Max, Mean, Stdev</b> are the maximum, mean and standard deviation of the (abs) difference between the <code>GeoidHeights.dat</code> and PyGeodesy heights.</p> <p>**1) Run times for Python 2.7.16, 3.7.2 and PyPy 6 on macOS 10.13.6 High Sierra and iMac, 12 GB, 3 GHz Core i3, all in 64-bit only.</p> <p>**2) Run time for Python 3.8.10 on macOS 12.1 Monterey and MacBook Air (M1, 2020), 16 GB, Apple M1 Silicon, Intel emulation in 64-bit.</p> <p>**3) Run time for Python 3.9.6 on macOS 10.16 Big Sur (aka 11.6.1) and MacBook Air (Retina 2020), 16 GB, 1.2 GHz Quad-Core i7 in 64-bit.</p> <p>**4) Run time for Python 3.10.1 on macOS 12.1 Monterey and MacBook Air (M1, 2020), 16 GB, Apple M1 Silicon, 64-bit natively.</p> <p>***) About half is needed to load the 466 MB+ <b><i>egm2008-1.pgm</i></b> file and convert 233 M+ 2-byte <code>ushorts</code> to 8-byte <code>float64s</code> for SciPy/NumPy.</p>					