

## CMIP6 Pressure Levels

The CMIP6 data request includes a range of specified pressure levels,

	Number of levels	Levels	Comment
	<b>Pressure (rows with grey backgrounds are not to be included in the CMIP6 request).</b>		
<b>plev3</b>	3	850, 500, 250,	3 levels spanning troposphere – used in CMIP5 for 6hrPlev data.
<b>plev3h</b>	3	100, 10, 1	HighResMIP
<i>plev4s</i>	4	850, 500, 200, 50	<i>SPECS, not used in CMIP5</i>
<b>plev4</b>	4	925, 850, 500, 250	HighResMIP (inst)
<b>plev5</b>	5	850, 500, 200, 100, 50	DCPP, priority 1 monthly
<b>plev7h</b>	7	925, 850, 700, 600, 500, 250, 50	HighResMIP (6hr time mean, 3hr synoptic)
<b>plev7c</b>	7	900, 740, 620, 500, 375, 245, 90	7 pressure layers defined by ISCCP simulator (CFMIP)
<b>plev8</b>	8	1000, 850, 700, 500, 250, 100, 50, 10	8 pressure levels spanning troposphere and stratosphere. Used in CMIP5 for daily data.
<b>plev10</b>	10	plev8 + 150, 70	DynVar Daily data, priority 1 (2 more levels wrt the 8 reported above, used for daily fields)
<b>plev11</b>	11	plev5 + 925, 700, 300, 30,20, 10	DCPP, priority 2 monthly
<i>plev14</i>	14	<i>plev7h + 1000, 150, 100, 20, 10, 5, 1 (plev8 + 925, 600, 150, 20, 5, 1)</i>	<i>HighResMIP .. for diagnosis of jet. (2 variables, daily)</i>
<i>plev17</i>	17	<i>plev10 + 925, 600, 400, 300, 200, 30, 20</i>	<i>Amon; DynVar Daily data, priority 2.</i>
<b>plev19</b>	19	plev10 + 925, 600, 400, 300, 200, 30, 20, 5, 1	Combines and replaces plev14 an 17: used by HighResMIP, DynVar and Amon.
<b>plev23</b>	23	plev19 + 7, 3, 2, and 0.4 hPa	DynVar Daily data, priority 3.
<b>plev27</b>	27	1000,975,950,925,900,875,850,825,800, 775,750,700,650,600,550,500,450,400,350,300,250,225,200,175,150,125,100	HighResMIP – enhanced resolution tropospheric pressure levels (6hr synoptic), priority 3.
<b>plev39</b>	39	1000 925 850 700 600 500 400 300 250 200 170 150 130 115 100 90 80 70 50 30 20 15 10 7 5 3 2 1.5 1 0.7 0.5 0.4 0.3 0.2 0.15 0.1 0.07 0.05 0.03	AerChemMip, DynVar and HighResMIP (zonal means)
		p1000, p840, p700, p560, p500, p220	220, 560 and 840 are 3 levels for the CALIPSO cloud simulator output. 1000: used for DCPP

zg1000; 500: wap500, CFMIP; ,  
700: ta700 in CFMIP.

Could also achieve more re-use of levels by replacing 100,125,150,175,200 in plev27 (125 and 175 only used here) with 100,130,150,170,200 (all levels in plev39).

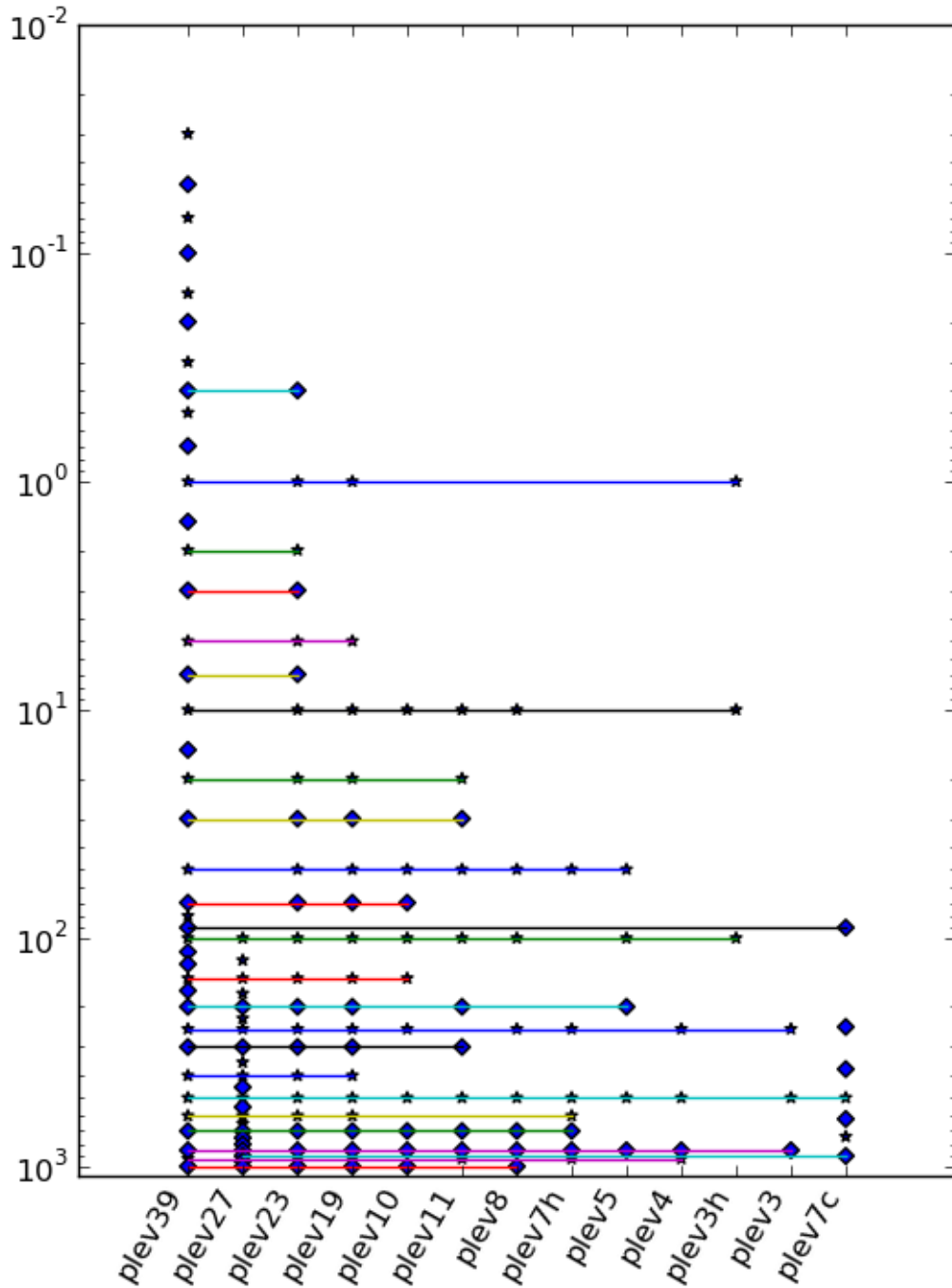


Figure 1: CMIP6 pressure levels. Horizontal bars link levels which are re-used.

