

10 Million year binned data					
Bin	Mean	Std. err.	p(O2)Best est.	p(O2)min -1sd	p(O2)min +1sd
240	2.2	0.9	20.3	19.2	21.3
250	39.1	2.1	26.6	25.7	28.0
260	27.3	1.7	25.3	24.4	26.5
270	22.3	1.8	24.7	23.8	25.9
280	50.4	1.9	27.8	26.8	29.2
290	52.2	1.2	27.9	27.0	29.3
300	37.3	4.1	26.5	25.3	28.0
310	14.5	0.5	23.6	22.8	24.4
320	22.5	1.0	24.7	23.9	25.8
330	22.5	1.7	24.7	23.8	25.9
340	27.9	2.7	25.4	24.4	26.7
350	31.4	4.9	25.8	24.5	27.4
360					
370	49.3	12.6	27.7	25.6	30.3
380	1.0	0.5	19.4	18.4	20.2
390	0.5	0.3	18.7	17.7	19.5
400	0.2	0.0	18.2	17.9	18.4
Formula			$((35-16)*\text{ACOS}((1-2*((\text{Mean Inert\%/100})^{(1/1.8)})))/\text{PI}())+16$	$((34-16)*\text{ACOS}((1-2*((\text{Mean Inert\%}-\text{Std. Error})/100)^{(1/1.7)})))/\text{PI}())+16$	$((37-16)*\text{ACOS}((1-2*((\text{Mean Inert\%}+\text{Std. Error})/100)^{(1/1.8)})))/\text{PI}())+16$
15 Million year binned data					
Bin	Mean	Std. err.	p(O2)Best est.	p(O2)min -1sd	p(O2)min +1sd
240	2.4	0.9	20.4	19.4	21.3
255	32.2	1.4	25.9	25.0	27.1
270	22.3	1.8	24.7	23.8	25.9
285	54.7	1.1	28.2	27.3	29.6
300	38.8	2.0	26.6	25.6	27.9
315	17.4	0.5	24.0	23.3	24.9
330	22.5	1.7	24.7	23.8	25.9
345	27.9	2.7	25.4	24.4	26.7
360	26.9	5.8	25.3	23.8	27.0
375	0.4	0.3	18.6	17.7	19.3
390	0.2	0.0	18.2	17.9	18.4
Formula			$((35-16)*\text{ACOS}((1-2*((\text{Mean Inert\%/100})^{(1/1.8)})))/\text{PI}())+16$	$((34-16)*\text{ACOS}((1-2*((\text{Mean Inert\%}-\text{Std. Error})/100)^{(1/1.7)})))/\text{PI}())+16$	$((37-16)*\text{ACOS}((1-2*((\text{Mean Inert\%}+\text{Std. Error})/100)^{(1/1.8)})))/\text{PI}())+16$