

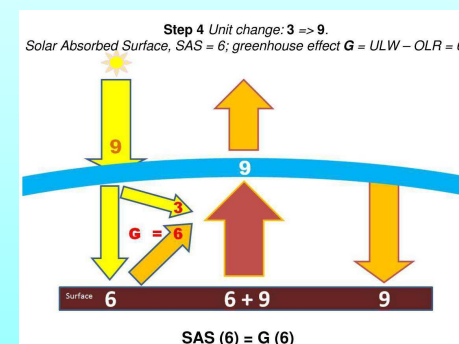
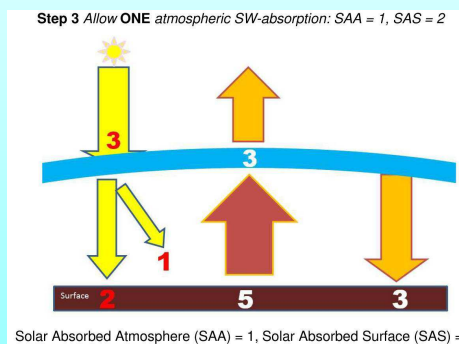
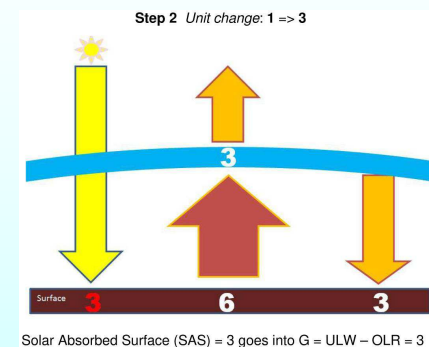
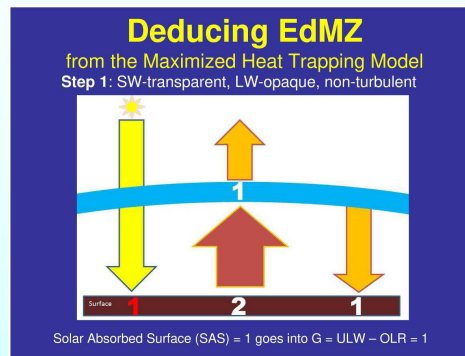
Patterns, Regularities and Direct Surface – Top-of-Atmosphere Flux Relationships in the CERES Data Sets

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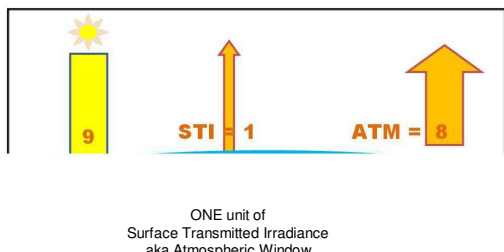
CERES measurements show there are small integer ratios in the annual global mean energy fluxes

All-sky CERES EBAF	Edition 2.8	Edition 4.0	Edition MZ	UNITS N	Ed MZ – Ed 4.0	
TOA LW	239.6	240.1	240.1	9	0.0	9
SFC SW net	162.3	163.7	160.1	6	-3.6	
SFC LW down	345.2	345.0	346.8	13	1.8	
SFC (SW+LW) in	507.5	508.7	506.9	19	-1.8	
SFC LW up	398.3	398.3	400.2	15	1.9	
SFC (SW+LW) net	109.2	110.3	106.7	4	-3.6	
2OLR + LWCRE	508.1	511.1	506.9	19	-4.2	6 15 19 4 13
G	158.7	158.2	160.1	6	1.9	SFC SW net SFC LW up SW+LW in SH+LH SFC LW down

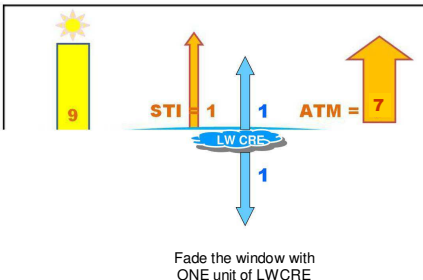
Clear-sky CERES EBAF	Edition 2.8	Edition 4.0	Edition MZ	UNITS N	Ed MZ – Ed 4.0	
TOA LW	265.4	268.1	266.8	10	-1.3	10
SFC SW net	214.3	213.9	213.4	8	-0.5	
SFC LW down	316.3	314.1	320.2	12	6.1	
SFC (SW+LW) in	530.6	528.0	533.6	20	5.6	
SFC LW up	398.4	397.6	400.2	15	2.6	
SFC (SW+LW) net	132.2	130.4	133.4	5	3.0	
2OLR	530.8	536.2	533.6	20	-2.6	8 15 20 5 12
G	133.0	129.5	133.4	5	3.9	SFC SW net SFC LW up SW+LW in SH+LH SFC LW down
LW CRE						
TOA	25.8	28.0	26.68	1	-1.3	LW CRE
SFC	28.9	30.9	26.68	1	-4.2	1



Step 5 Allow ONE unit of partial atmospheric LW-transparency ...



Step 6 ... introduce ONE unit of cloud blanketing effect ...



Step 7 ... and close the balance with turbulence.

