

Occupation Matrices

- ADS#5: Microwindow occupation matrices for p,T and trace gas retrievals
 - Identifiers of microwindows used are:
 - * labels of microwindows selected for sweep #i, ($i=1, \dots, N^{sw}$)
 - * logical retrieval vector
 - Names of the occupation matrices are missing.
- Need to identify the Occupation Matrix for REC analysis and Data Assimilation
 - Comparison between the ESA OM identifiers and the OM database:
 - * $\sim 80\%$ of nominal OMs for each species
 - * New OM labels invented by ESA (explanation?)

Occupation Matrices and their frequency over 24 days

pt	h2o	o3	hno3	ch4	n2o	no2
005	32.68%	005 29.91%	005 32.72%	005 26.43%	005 31.959%	005 34.78%
002	21.58%	002 21.83%	002 21.54%	002 22.09%	002 22.66%	002 21.58%
006	18.35%	006 18.10%	006 18.34%	006 18.50%	003 11.37%	006 17.20%
003	10.78%	003 10.22%	003 10.62%	312 8.20%	006 10.21%	003 11.31%
004	8.23%	004 6.72%	004 8.22%	001 7.55%	004 8.52%	004 9.37%
001	6.21%	001 6.26%	001 6.17%	003 7.48%	001 7.39%	001 5.69%
015	1.85%	704 4.20%	618 2.38%	004 4.78%	618 3.49%	033 0.02%
115	0.27%	618 1.31%	621 0.01%	618 3.02%	312 2.75%	042 0.02%
068	0.03%	700 0.39%	703 0.96%	015 0.68%	015 1.06%	036 0.02%
024	0.01%	701 0.06%	612 0.21%	336 0.67%	318 0.26%	030 0.01%
021	0.01%	436 0.04%	015 0.13%	615 0.39%	621 0.22%	024 0.01%
		060 0.02%	018 0.06%	612 0.06%	627 0.05%	
		415 0.01%	060 0.04%	360 0.06%	612 0.03%	
		418 0.01%	702 0.03%	018 0.04%	624 0.02%	
		621 0.01%	621 0.01%	621 0.02%		
		701 0.01%		630 0.01%		
10909	9575	10765	10926	8860	9121	11630