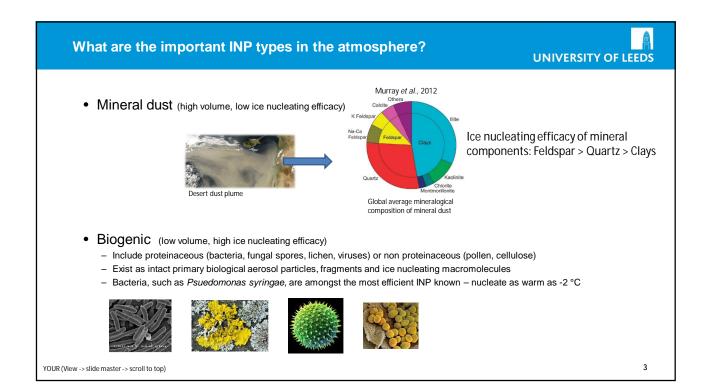
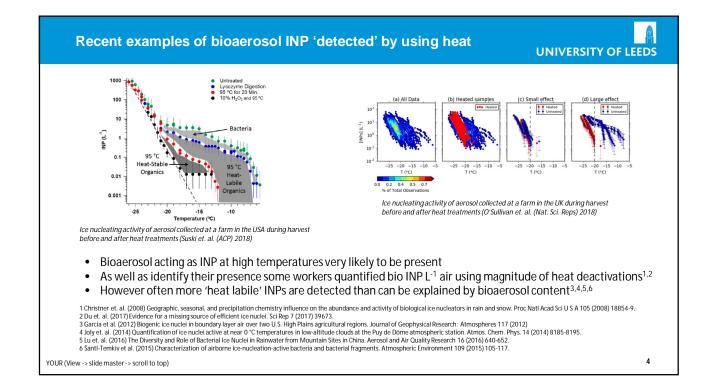
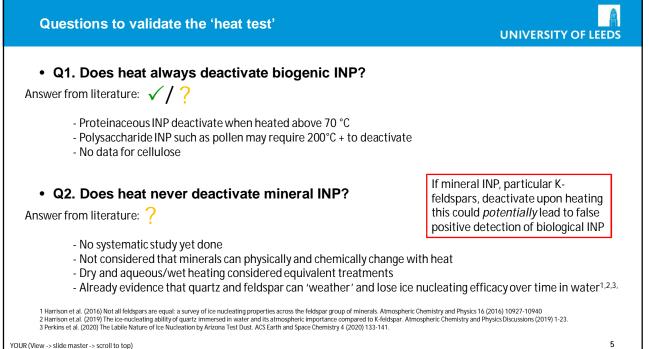


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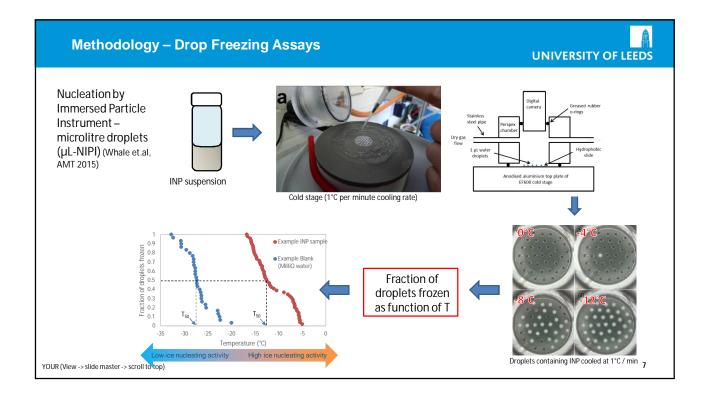


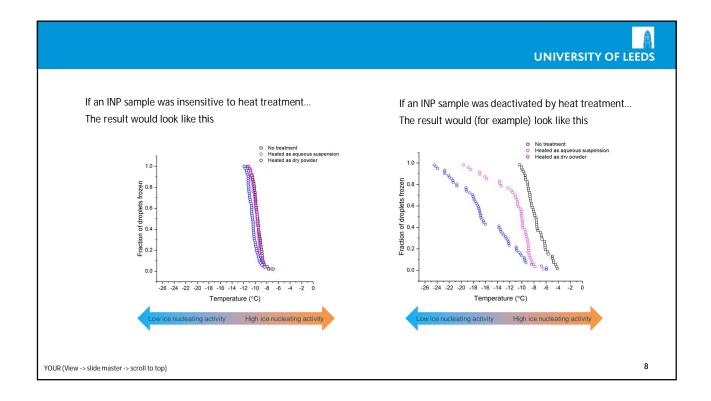




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			UNIVERSITY OF LEED		
	ation efficacy of range of atmosp proxies after parallel dry and aqu				
Sample Class	INP sample tested	IND comple besting treatmen	to.		
Feldspar	K-feldspar (x5), Na/Ca feldspar	INP sample heating treatmen			
Silica	Quartz (x3), Chalcedony	'Wet' heat treatment	'Dry' heat treatment		
Clays	Kaolinite (x2), Montmorillonite (x2), Chlorite		••••		
Other	Calcite, Volcanic Ash (x2)		Vs.		
Dust analogues	NX Illite, Arizona Test Dust				
Biogenic (proteinaceous)	Snomax* , Lichen	tttt			
Biogenic (non-	Microcrystalline cellulose (MCC), Birch pollen washing water (BPWW)	Suspension made then heated at 100°C for 30	Heated as dry powder at 250°C for 4 hours then suspended in water		





lineral INP	Sample	Class	∆T ₅₀ Wet heat	∆T ₅₀ Dry heat	Biogenic IN	P Sample	Class	ΔT ₅₀ Wet ΔT ₅	
r S F F	Microcline (Amazonite)	K-feldspar	-1.5	-5.6			Biogenic	heat	
	Microcline (BCS-376)	K-feldspar	+0.2	+0.2		Snomax	(proteinaceous)	-4.6	
	Microcline (TUD#1)	K-feldspar	-1	-1.2		Lichen	Biogenic (proteinaceous)	-3.9	
	Microcline (TUD#3)	K-feldspar	-0.1	-1.9		Microcrystalline cellulose (MCC)	Biogenic (non- proteinaceous)	0.0	
	Sanidine	K-feldspar	+0.8	-0.4		Birch pollen washing	Biogenic (non-	-1.3	
		Na/Ca Feldspar	-1.2	-0.6		. ,	water (BPWW) proteinaceous)		
	a-Quartz	Silica	-7.3	+0.1		Minor deactivation (>	1.2 °C)		
	Fluka quartz	Silica	-4.1	+1.3		Large deactivation (> 2	2.0 °C)		
	Fused quartz	Silica	-4.4	-1.1	Instrumentalerro	or ±0.4 °C			
	Bombay chalcedony	Silica	+0.1	-0.9					
	Montmorillonite (CMS)	Clay	-2.3	-0.3		ne mineral INP are heat treatment b			
	Kaolinite (kga-1b)	Clay	+0.5	+1.8		sitive to dry heat		ieiai iess	
	Calcite	Other	-1.9	+0.2		y consistent trend		lica samples	
	Volcanic ash	Other	-6.2	+0.9	-	ártz)		·	
	ATD	Dust analogue	-4.5	-1.4		genic INP react as	expected to	same heat	
)UR (View -> slide i	NX illite	Dust analogue	0.0	-0.8	trea	treatments			

