

Run 1 (Pure ice crystals growth roughening)			
Static Data			
Size of cold stage:	51 mm		
Height of cold stage:	8 mm		
vacuum pressure (set)	50 Pa		
Z/TILT (distance of detector from stage)	5um		
vacuum current	12kv		
probe current		85	
Additional Comments	waited untill pressure was 70 Pa before turning on the temp		
Additional Comments			
Kinetic Data			
Time	Action/observation	Temperature (actual)	Crystal Size
2:46	truned on pressure	24.2	none
2:51	set temp to -43 (pressure is at 70 Pa)	22.8	
2:54	cystals observed	34	observed
2:58	set temp to -32 to slow growth for images	-34.7	
3:00	taking 3D image (case1.0)	-32.8	
3:01	crystal still growing	-32.8	
3:02	taking 3D image (case1.1)	-32.7	
3:05	taking 3D image (case1.2)	-32.7	
3:07	taking 3D image (case1.3) of up close roughening	-32.7	
3:10	taking 3D image (case1.4)	-32.7	
3:13	taking 3D image (case1.5)	-32.7	
3:15	taking 3D image (case1.6) of end of crystal (up close)	-32.7	
took image			
3:21	taking 3D image (case1.7)	-32.7	
3:32	ended experiment	-32.7	
Run 1 (K2SO4 ice crystals growth roughening)			
Static Data			
Size of cold stage:	51 mm		
Height of cold stage:	8 mm		
vacuum pressure (set)	50 Pa		
Z/TILT (distance of detector from stage)	5um		
vacuum current	12kv		
probe current		85	
Additional Comments	waited untill pressure was 80 Pa before turning on the temp		
Additional Comments			
Kinetic Data			
Time	Action/observation	Temperature (actual)	Crystal Size
4:46	turned on pressure	25.5	none
4:50	set temp to -34		none
4:52	temp is at -25 and pressure at 60 Pa		
4:54	set temp to -33	-34.7	
5:54	took 3D image (case1.0)	-33.8	
4:58	set temp to -32	-33.7	
4:59	took 3D image (case1.1)	-32.8	
5:02	took 3D image (case1.2)	-32.8	
5:04	took 3D image (case1.3)	-32.8	
5:06	took 3D image (case1.4)	-32.8	
5:08	took 3D image (case1.5) (up close of bottom of crystal)	-32.8	
5:10	took 3D image (case1.6)	-32.8	
5:12	took 3D image (case 1.7) (up close of bottom of crystal)	-32.8	
5:14	took 3D image (case 1.8)	-32.8	
5:16	took 3D image (case1.9)	-32.7	
5:19	took 3D image (case1.10)	-32.7	
5:21	took 3D image (case1.11)	-32.7	
5:24	took 3D image (case1.12) (of side of crystal)	-32.7	
5:26	took 3D image (case1.13)	-32.7	
5:28	took 3D image (case1.14)	-32.7	
5:31	took 3D image (case1.15)	-32.7	
5:34	took 3D image (case1.16) (up close of top)	-32.7	
5:36	took 3D image (case1.17)	-32.7	
5:39	took 3D image (case1.18)	-32.7	
5:42	took 3D image (case1.19)	-32.7	
5:46	took 3D image (case1.20)	-32.7	
5:48	took 3D image (case1.21) (up close of bottom right)	-32.7	
5:50	took 3D image (case1.22)	-32.7	
5:52	ended experiment		