

Mean thickness over			0		grid cell		1		
grid cell	sea ice	pond							
			open water	ice area fraction					
$h_i a_i$	h_i			$1 - a_i$	a_i				
			CESM and topo ponds						
				unponded ice		ponded ice fraction			
$h_{pnd} a_{pnd} a_i$	$h_{pnd} a_{pnd}$	h_{pnd}		$(1 - a_{pnd}) a_i$		$a_{pnd} a_i$			
				Level-ice ponds					
				deformed ice		level ice fraction			
				$(1 - a_{lvl}) a_i$		$a_{lvl} a_i$			
						unponded ice		ponded ice	
$h_{pnd} a_{pnd} a_{lvl} a_i$	$h_{pnd} a_{pnd} a_{lvl}$	h_{pnd}			$(1 - a_{pnd}) a_{lvl} a_i$		$a_{pnd} a_{lvl} a_i$		