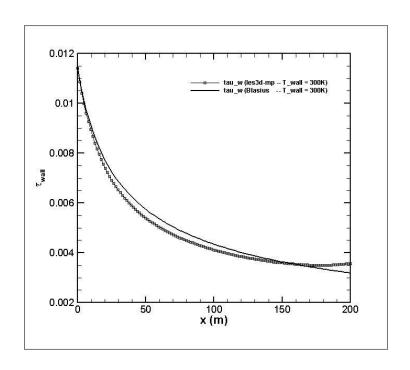
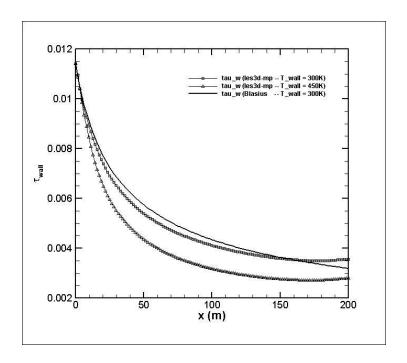
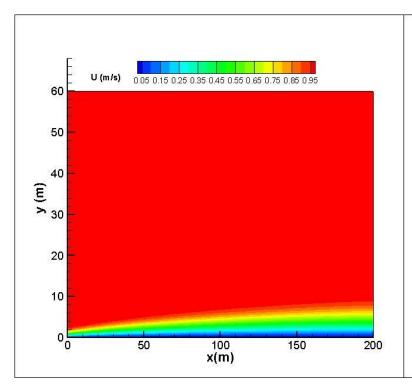
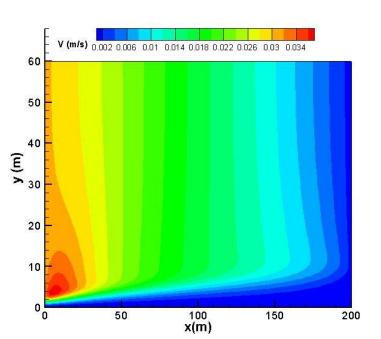
$v_{inf}(m/s^2)$	$Pr = \frac{c_p \mu}{k}$	$v_{wall} (m/s^2)$	$k_{inf}(m/s^2)$	$k_{wall} (m/s^2)$
0.02	0.71	$v_{inf} {T_w / T_a}^{1.6}$ $= 0.0383$	$\frac{c_p \nu_{inf} \rho_{inf}}{Pr} = 0.0539$	$\frac{c_p \nu_{wall} \rho_{wall}}{Pr} = 0.05685$
$L_0 - L_z$	Re	$\delta^*(z=L_0)\ (m)$	$\delta(z=L_0) (m)$	$T_{wall}(K)$
16.84 - 200 m		1	3	450K
$U_{ref}\left(\frac{m}{s}\right)$	$\delta^*(m)$	$v_{ref}\left(\frac{m}{s^2}\right)$	$Re_{ref} = \frac{u_{ref}L_{ref}}{v_{ref}}$	
1.0	1.0	0.02	50	

$(L_x L_y L_z)^*$	$(n_x n_y n_z)$	grid stretching	
(200,60,4)	(128,96,4)	 Wall –normal hyperbolic (α= 2.75) Uniform grid in x, z 	
Inflow boundary	outflow boundary	freestream boundary	
$u=u_{blasius}, \ v=v_{blasius}, \ w=0 \ T=T_{wall}$	$\begin{aligned} &\frac{\partial u_i}{\partial t} + U_c \frac{\partial u_i}{\partial x_i} = 0 \\ &\frac{\partial h}{\partial t} + U_c \frac{\partial h}{\partial x_i} = 0 \\ &U_c = \frac{1}{L_y} \int u_{outflow} dy \end{aligned}$	$\frac{du_{i}}{dy} = 0$ $\frac{du}{dy} = 0$ $\frac{dh}{dy} = 0$ $\frac{dh}{dy} = 0$ $v = v_{blasius}$ $\frac{dh}{dy} = 0$	
wall boundary	Scalar Discretization Option	Periodicity	
$u_{i_{wall}} = No \ slip$ $T_{wall} = 450K$	QUICK Spanwise		









ddd

