

Correct PDE	$u_t + (uu_x + vu_y) = -p_x + 0.01(u_{xx} + u_{yy})$ $v_t + (uv_x + vv_y) = -p_y + 0.01(v_{xx} + v_{yy})$
Identified PDE (clean data)	$u_t + 0.998(uu_x + vu_y) = -p_x + 0.01055(u_{xx} + u_{yy})$ $v_t + 0.998(uv_x + vv_y) = -p_y + 0.01055(v_{xx} + v_{yy})$
Identified PDE (1% noise)	$u_t + 0.998(uu_x + vu_y) = -p_x + 0.01044(u_{xx} + u_{yy})$ $v_t + 0.998(uv_x + vv_y) = -p_y + 0.01044(v_{xx} + v_{yy})$
Identified PDE (5% noise)	$u_t + 0.997(uu_x + vu_y) = -p_x + 0.01065(u_{xx} + u_{yy})$ $v_t + 0.997(uv_x + vv_y) = -p_y + 0.01065(v_{xx} + v_{yy})$