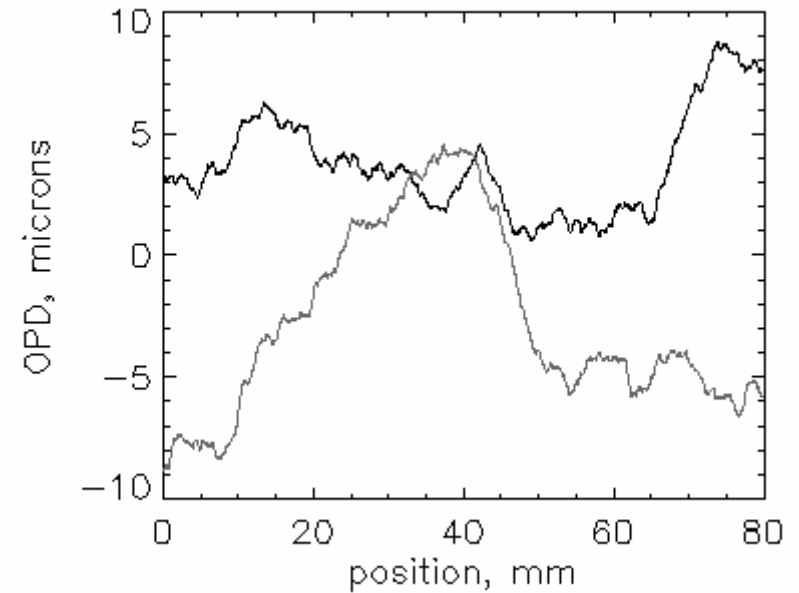
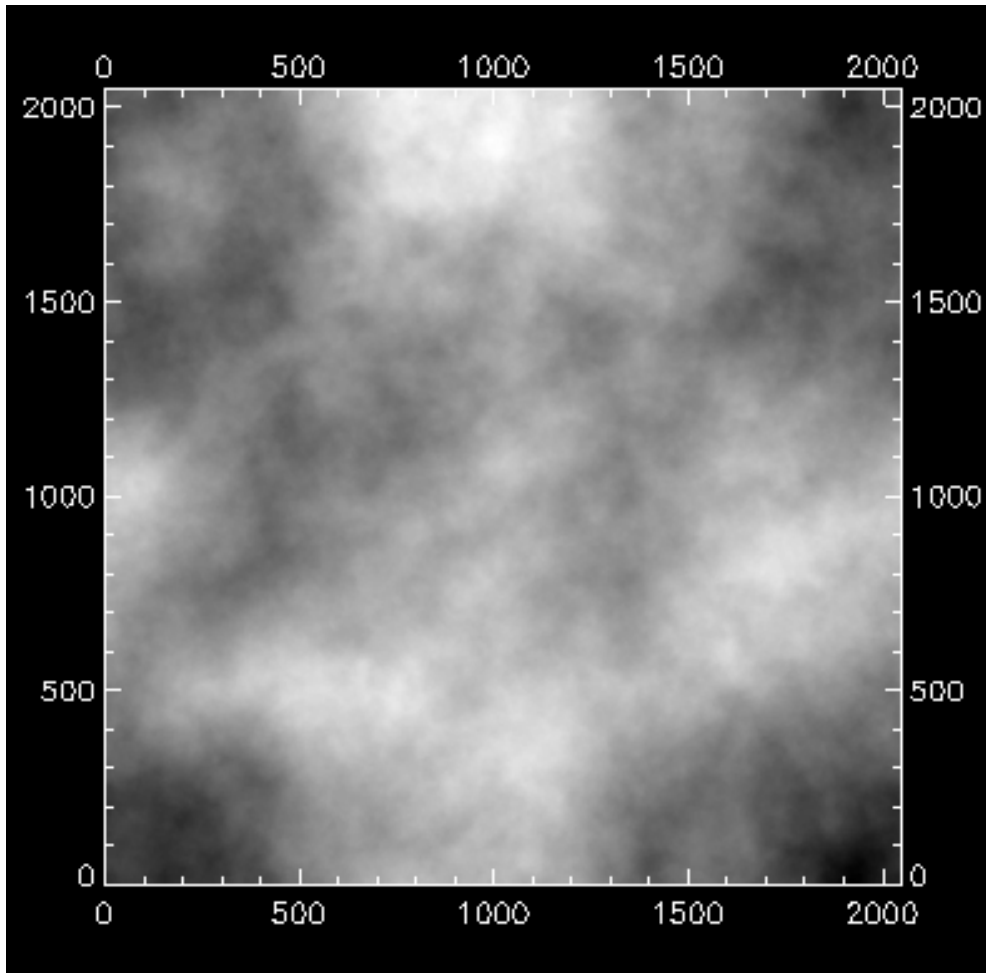




# The Kolmogorov atmosphere can be simulated with transmissive phase plates



Lab	Sky
$r_0 = 400 \mu\text{m}$	20 cm
$L = 80 \text{ mm}$	40 m
$dx = 39 \mu\text{m}$	1.9 cm
opd p-v = $25 \mu\text{m}$	
$\Delta\text{opd (8 bit)} = 100 \text{ nm}$	

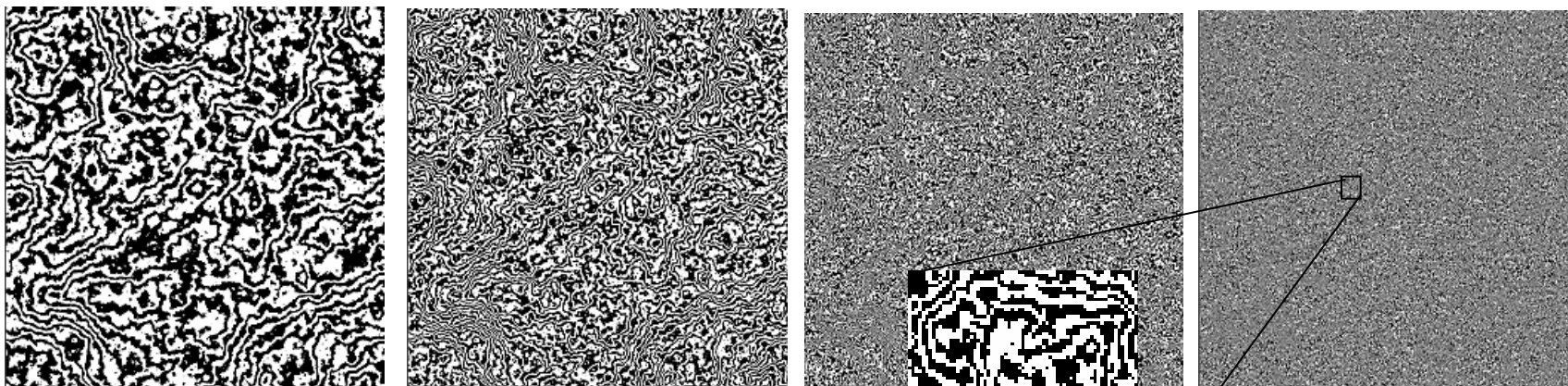
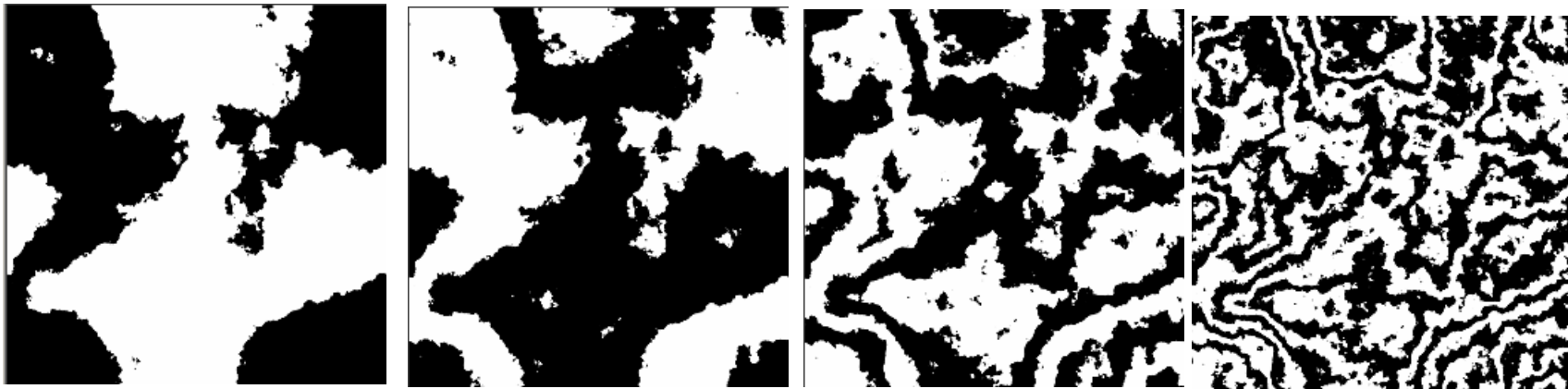


# An exact computed pattern of phase aberrations can be etched onto a glass plate



256 x dynamic range (100nm – 25 $\mu$ m) is achieved with 8 etch steps

Most significant bit



Least significant bit