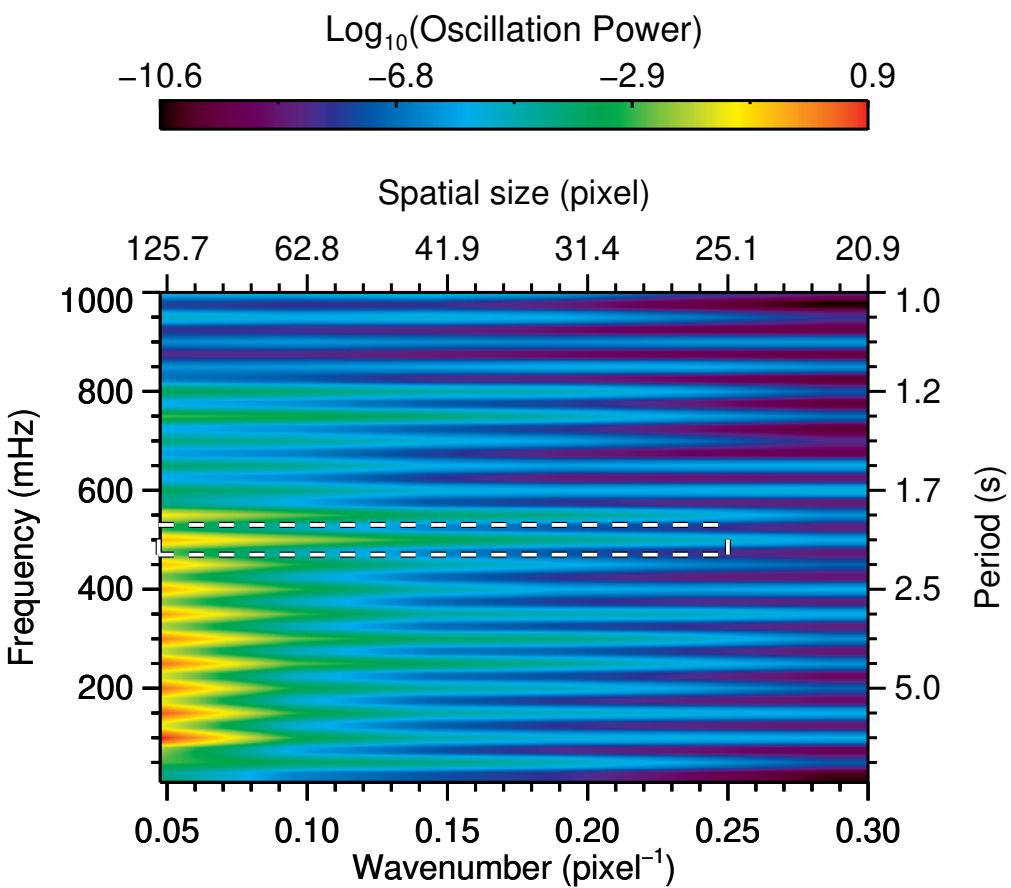
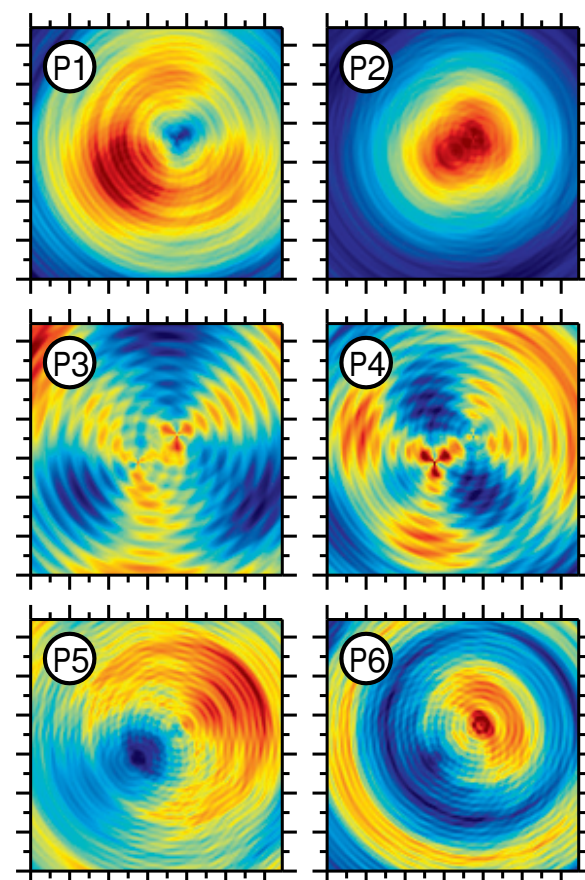
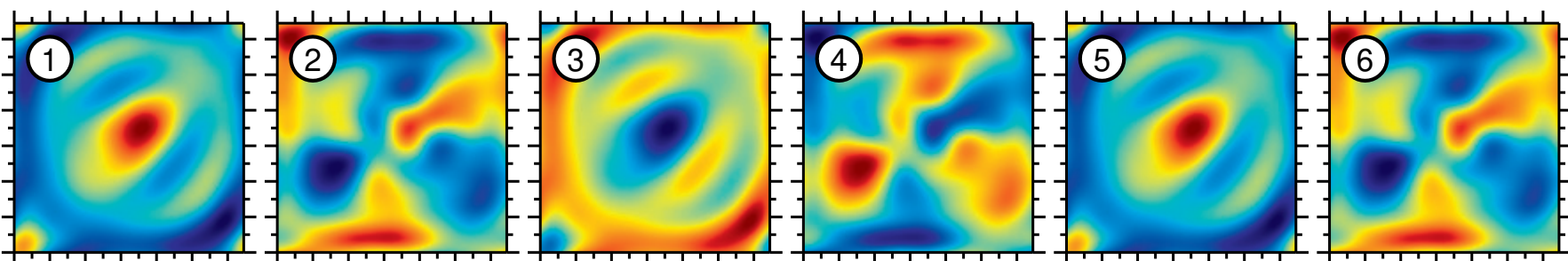


(a)  $k$ - $\omega$  diagram and filtering

(b) POD spatial modes

(c)  $k$ - $\omega$  filtered images

(d) POD frequency-filtered spatial images

