Title of Paper

John Doe, Presenting Author and Steve Smith

Scripps Institution of Oceanography,
University of California San Diego
person@ucsd.edu

Abstract

The abstract should be no longer than 12 lines.

1 Introduction

Text of Paragraph 1. Do citations like this: Browand and Winant (1972), Wood (1968).

Continue with text of second paragraph. Here is my first equation...

$$\pi > 3.14 \tag{1}$$

Now onto paragraph 3...

2 New Section Heading

Text in the new section...

2.1 Subsection Heading

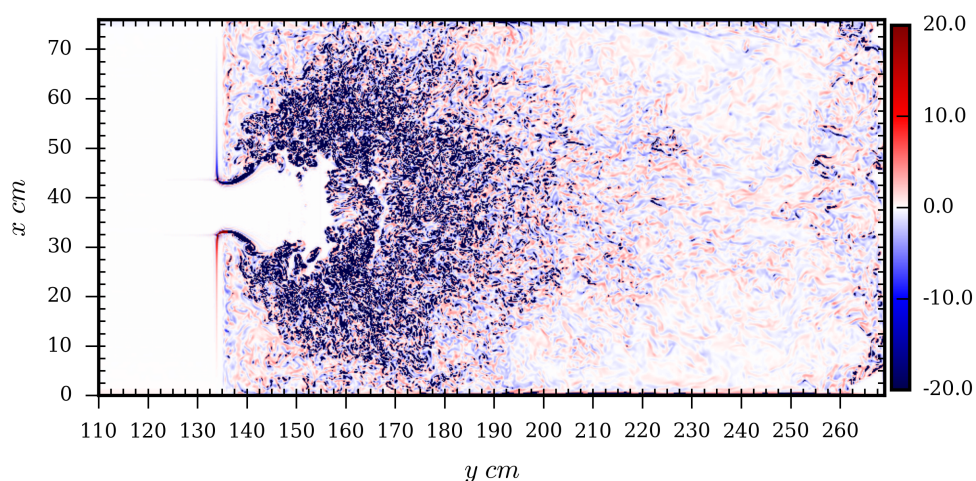In this section we'll introduce and discuss a figure...

Figure 1: Vertical vorticity $\zeta(x, y)$ (s^{-1}) at fixed z in a buoyancy-driven, horizontal exchange flow through a narrow gap. Locations where $|\zeta| > \zeta_*$ are shown in dark blue.

3   New Section Heading

In this section we'll summarize everything in a table...

Table 1: Dimensionless parameters defining the flow regime and the model resolution.

parameter	value	comment
σ/f	2.7	$\sigma/2 > f$
N_{pyc}/f	11.6	strongly stratified pycnocline
$N_{\mathrm{deep}}/N_{\mathrm{pyc}}$	0.19	weak stratification at depth
δ/H	0.13	thin pycnocline
h_1/h_2	0.06	near-surface pycnocline
H/R	0.12	shallow basin
$(\rho_o/\Delta\rho)(\eta_{\max}/R)(H/R)$	0.046	weak tidal forcing
$[\eta/\partial\eta/\partial r]/R$	≈ 1	external Rossby deformation radius
$a_{\mathrm{int}}/R = (c/f)/R$	0.12	internal Rossby deformation radius
$\Delta x/R = \Delta y/R$	0.004	horizontal grid spacing
$\Delta z/\Delta x$	0.22	grid aspect ratio
$\sigma\,\Delta t$	0.025, 0.0125	time step

References

Browand, F. K. and Winant, C. D. (1972). Blocking ahead of a cylinder moving in a stratified fluid: an experiment. *Geophys. Fluid Dyn.*, 4:29–53.

Wood, I. R. (1968). Selective withdrawal from a stably stratified fluid. *J. Fluid Mech.*, 32:209–223.