

Abstract Submitted  
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**Internal Wave Breaking From Parametric Subharmonic Instability** JAMES MUNROE, Memorial University of Newfoundland — Parametric subharmonic instability is an energy transfer mechanism between internal waves from large to small spatial scales. In this type of resonant triad interaction, a parent wave of higher frequency destabilizes leading to the growth of two daughter waves with lower frequencies. In a laboratory experiment, a full-depth wave generator forces a high frequency vertical mode-1 wave and parametric subharmonic instability generates large amplitude, high vertical wave number waves.

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