

Accepted Manuscript

Experimental characterization of velocity fields within the front of viscoplastic surges down an incline

P. Freydier, G. Chambon, M. Naaim

PII: S0377-0257(16)30111-2
DOI: [10.1016/j.jnnfm.2017.01.002](https://doi.org/10.1016/j.jnnfm.2017.01.002)
Reference: JNNFM 3859



To appear in: *Journal of Non-Newtonian Fluid Mechanics*

Received date: 27 July 2016

Please cite this article as: P. Freydier, G. Chambon, M. Naaim, Experimental characterization of velocity fields within the front of viscoplastic surges down an incline, *Journal of Non-Newtonian Fluid Mechanics* (2017), doi: [10.1016/j.jnnfm.2017.01.002](https://doi.org/10.1016/j.jnnfm.2017.01.002)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Internal dynamics measurements of free-surface viscoplastic surges are reported.
- The position of the unyielded plug layer in the flow is monitored.
- A simple lubrication model properly reproduces the observations in most of the surge.
- The unyielded plug layer completely disappears in the very tip of the surges.

Download English Version:

<https://daneshyari.com/en/article/4995567>

Download Persian Version:

<https://daneshyari.com/article/4995567>

[Daneshyari.com](https://daneshyari.com)