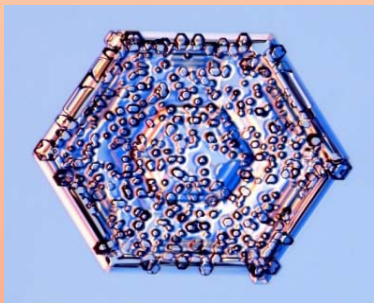
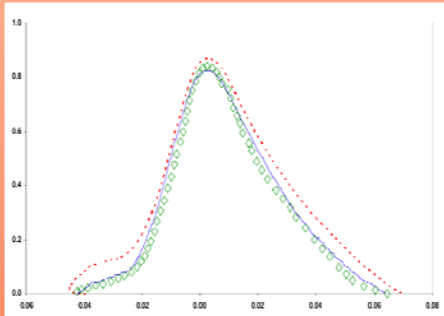




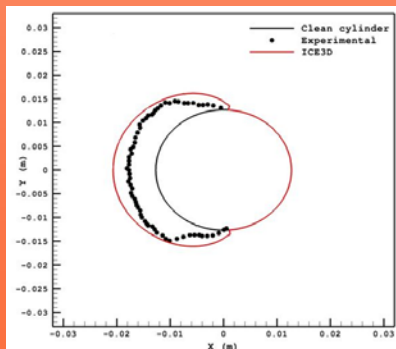
Ice crystals formed by freezing droplets ©Caltech



Naturally occurring ice crystal ©Caltech

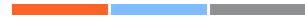


Collection efficiency in SLD condition: FENSAP-SLD: with (blue) and without (red) splashing and bouncing, compared to experiment



Ice accretion of a mixed-phase flow: FENSAP-SLD compared to experimental data

Are you ready for Appendices D and O? *FENSAP-SLD is !*



The NTSB has recommended that aircraft, rotorcraft and engine manufacturers ensure that their new products can fly safely under a wider range of icing conditions than Appendix C, including freezing rain and drizzle (the new Appendix O), as well as ice crystals and a mix of crystals, freezing rain and drizzle (the new Appendix D).

Complying with these new requirements will translate into millions of dollars spent on extra wind/icing tunnels, flight testing and related paperwork. Reducing the time and cost of design and certification requires a faster, cost-effective, reliable companion technology or alternative.

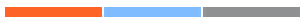
The obvious choice is numerical simulation. NTI has developed several advanced, reliable and validated physical models to cover the two new appendices and has, since 2008, supplied SLD technology to companies that did not wait for regulators to mandate it.

FENSAP-SLD, an extension of the well-known FENSAP-ICE system (now used worldwide), can model droplet deformation, breakup, splashing, bouncing, and the associated mass loss of the larger droplets. FENSAP-SLD also supports mixed-phase flows comprising ice crystals and water droplets, with new algorithms for crystals sticking and melting, as well as for the mass loss induced by impinging crystals.

FENSAP-SLD's unmatched innovative functionalities are now only "a-click-away", including automatic regridding of iced geometries for multiple accretion layers, increased ice shape accuracy in both rime and glaze ice conditions, and reliable performance degradation evaluation.

Contact NTI and learn how FENSAP-SLD can help you reduce the costs involved with meeting Appendices D and O.

Make yourself ready for a FENSAP-ICE O-D!



Newmerical Technologies International
Fernando Cuneo, Sales Manager
680 Sherbrooke Street West, Suite 722
Montreal, QC, Canada H3A 2M7
Tel: +1 514 398-2671, Fax: 8454
www.newmerical.com