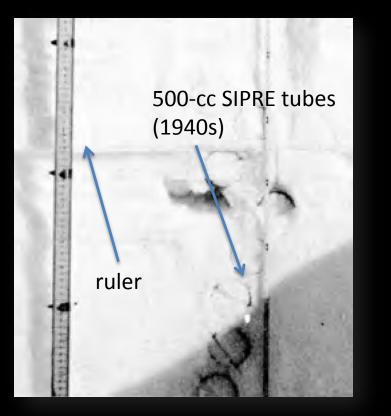
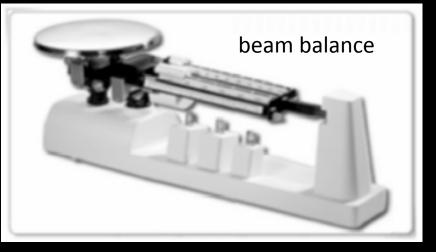
## Some thoughts as we head toward a snow

## space míssíon....



Matthew Sturm, iSWGR pastchair







depth probe









Source: H. Kostis, NASA Goddard

We have an opportunity we cannot squander....

- NASA 2017 Decadal Survey likely to assign snow remote sensing highest priority.
- Past concepts for space missions (e.g. SCLP, CoReH<sub>2</sub>O) evidence community has ideas, energy, history.
- SnowEX'17 shows momentum.
- Emerging technologies (interferometry, SfM, etc.)
- Motivated NASA program manager.

But there are pitfalls ahead of us.....

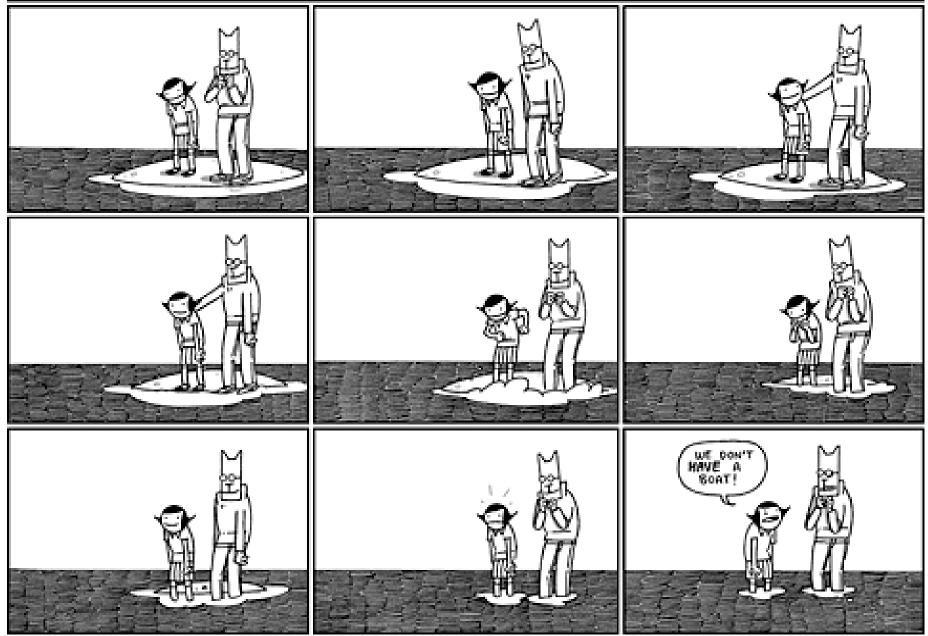
- A community divided about the best path forward.
- Competing needs: water snow vs. climate snow
- Contradictory requirements for potential instruments (e.g., specificity vs. coverage)
- Emerging technologies too new to have demonstrated performance.
- Peer-reviewed documentation for both older and new technology limited.

Past Performance....

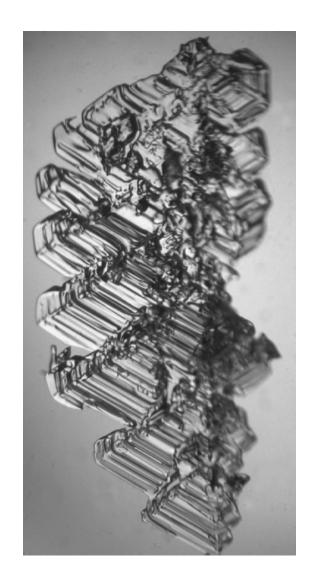
- SCLP in Decadal 2007: seen as expensive w/ wet snow gap and algorithms not mature
- CoReH<sub>2</sub>O:Lacking a "killer" SWE vs. backscatter plot & lacking enough friends in the decision room.
- Earth Venture (2 failed submissions): ???

• Let's not repeat these performances..

## A Rising Tide Lifts All Boats



- •Listen
- Respect
- •Accept
- •Turn-about
- Transparency
- Self-criticality
- Enthusiasm



## **TRANSPARENT & OPEN**

