Scientific Research (Useful Software Tools)

David Delene (http://aerosol.atmos.und.edu/)
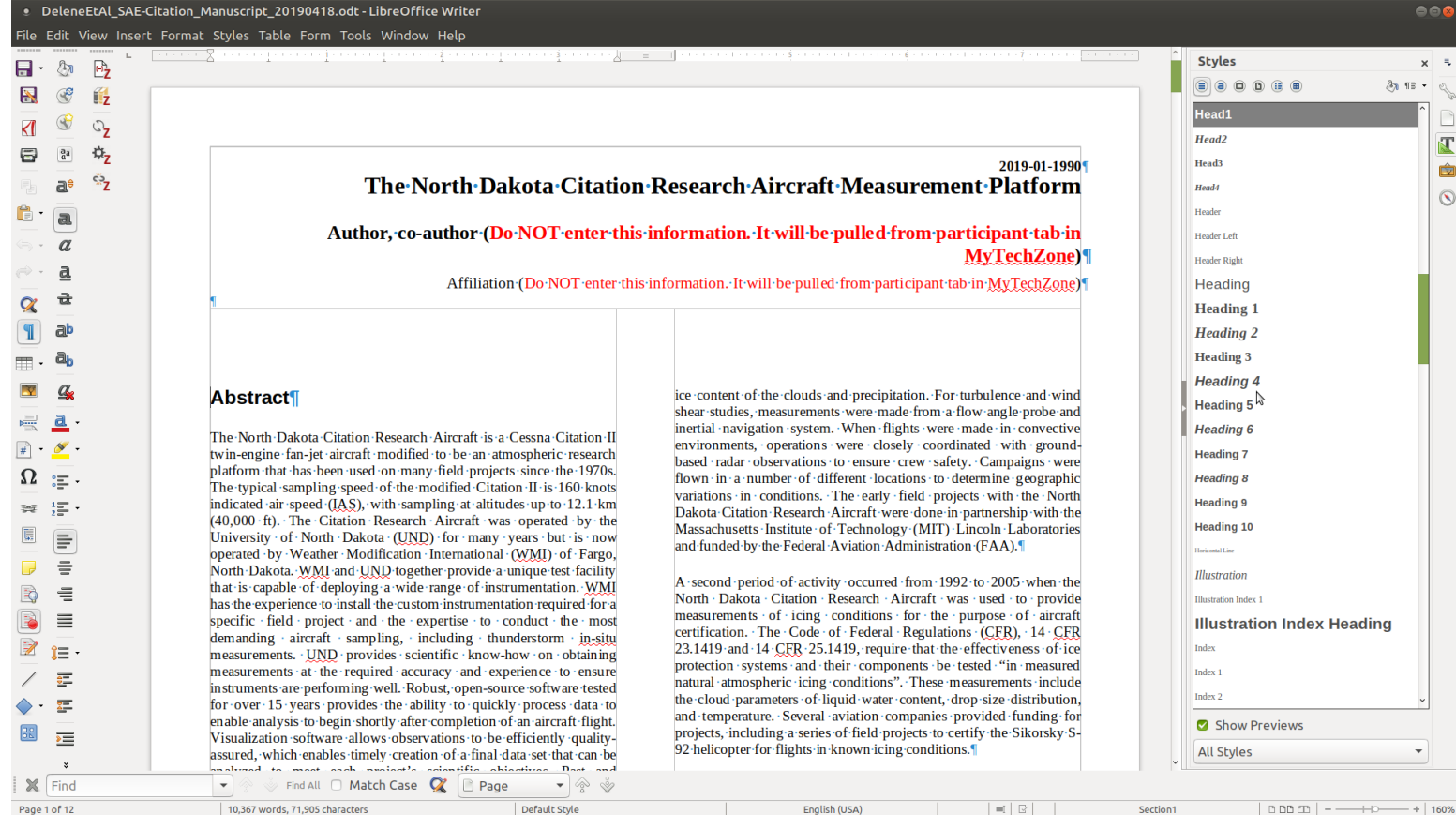
Software Tool for Literature Research

- Article Search - Google Scholar (https://scholar.google.com/ncr)
- Reference Manager - Zotero
  - (Wrote 15 % of the Delene 2016 Paper and 29 % of Delene et al., 2019)
- PDF Reader - Foxit / Evince (Linux) (Highlight and Add Notes)
- Word Processor (Article Guide) - Libreoffice (Open Document Format, odt)
  - Paragraph Styles
  - Figures
    - Anchor as Character (Move with Text)
    - Cross Referencing Figure Number
  - Text Read Out Loud

Tools: Setup and Learning

- Install (Personal Computers)
  - Zotero, Foxit, Libreoffice, Text Read Out Loud
- Accounts
  - Zotero
- Start using the Totals
  - Test One Article
    - Search – Google Scholar
    - Article into Zotero (Setup AMS style)
    - Paragraph in Document (Read it Out Loud)
    - Citation Entry

Tools: Full Example

- Article using Zotero
  - Delene, D. J., Suitability of North Dakota for Conducting Effective Hygroscopic Seeding, Journal of Weather Modification, 48, 43-67, 2016, URL: http://www.weathermodification.org/publications/index.php/JWM/article/view/549. [ODT]
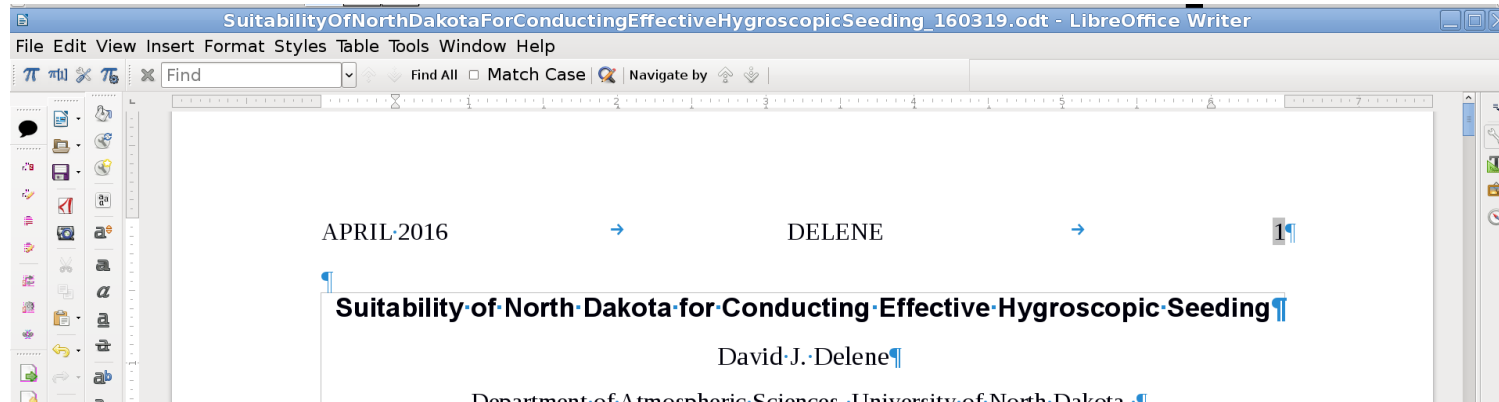
Software Tool for Network Computing

- Formal Web Page Creation
  - Sea Monkey Composer (http://aerosol.atmos.und.edu)
- Quick Web Page Documentation
  - Wiki (http://atmoswiki.aero.und.edu/atmos/home)
- Network/Remote Access
  - VPN – Virtual Private Network
  - ssh / tmux – ssh thunder.und.edu, delene2thunder 1
  - VNC – Virtual Network Computing
- Automatic Backup
  - Rsync – Remote File Copying (rsync_local2plume)
- Software Repositories (Examples)
  - Sourceforge / Github

Conclusion

- Web Information
  - Home Page (http://aerosol.atmos.und.edu)
  - Wiki (http://atmoswiki.aero.und.edu/atmos/home)
- People
  - Faculty
  - Students