- ET-CDMS User Story Analysis
  Climate Data
  - what
    - Climate Database
      - from CDMS Spec
        - required
          - 4.1 Observation data
            - 4.1.1 Climate observations
          - 4.3.1 Observation metadata
          - 4.6.1 Spatial
          - 5.3 Observation quality control
          - 5.4 Quality assessment
          - data and metadata management
            - data and metadata consistency
            - new functionality
        - recommended
          - GCOS ECV
          - open spatial standards
          - 4.3.3 Data provenance
          - 3.1.5.1 Third-party data
          - point-in-time recovery
          - 5.2.1 Imaging
        - optional
          - data uncertainty
          - gridded data
          - numerical models
      - possible structure
        - Observations
          - An observation
            - derived from ISO 19156 Observations and Measurements
            - has an observed property
              - phenomena observed
                - WIGOS Observed Variable
            - occurs somewhere
              - sampling feature
                - location of sensor
                - WIGOS Station/Platform
            - has temporal constraints
              - time phenomena observed
              - time of validity of result
              - time result made available
            - has observation context
              - as part of an observation network
              - WIGOS Purpose of observation
              - WIGOS Environment
            - has a result
              - an estimate of a value
            - has quality
              - as defined by mili-tiers of quality
              - WIGOS Data Quality
            - has an observation process
              - QA Process
              - WIGOS Instruments and methods of observation
              - WIGOS Sampling
              - WIGOS Data Processing and Reporting
            - has context
              - Observations metadata
              - Data Provenance
              - Intellectual Property
                - WIGOS Ownership and Data Policy
              - Discovery Metadata
              - WIGOS Contact
          - time-series per variable / per station
            - Observed value
              - official value
              - values from each sensor
            - observations contextual data
              - Observations Metadata
              - Multi-tier Quality
                - from
                  - initial observation
                - to
                  - high quality
              - Data Provenance
                - point in time recovery
                - what was changed
                  - etc
              - Uncertainty
              - Intellectual Property
                - 3rd Party data
            - Derived Data
              - Statistics
                - Extremes
                - Normals
                  - Climatological Standard Normals
                  - other normals
                - Anomolies
                - daily mean, max, min
                - monthly data
                - annual
                - long term averages
                - Indices
              - Homogenised data
        - Spatial
          - observations spatial views
            - as a set of dynamic discrete coverages
              - for each derived data type
                - classified
                  - per time period
                  - per climate network
                  - per phenomena / variable
                  - per sensor model
                  - per station owner
                  - per maintenance organisation
                  - etc
              - as values in database change
                - spatial views change
          - time-series grids
            - derived grids
            - model data
            - may not be in database
        - Discovery Metadata
    - Revision track record
      - Drafted
        - Radim
      - Revision
        - Nov 2016
          - Bruce and Denis
  - Related
    - GCOS
      - http://www.wmo.int/pages/prog/gcos/index.php?name=AboutGCOS
      - http://www.wmo.int/pages/prog/gcos/index.php?name=EssentialClimateVariables
    - 4.2 Logical data models
    - 3.1 Data policy
      - 3.1.2 Sustainability
      - 3.1.1 Commitments
        - 3.1.1.2 WMO Technical Regulations
          - WMO No. 100, Guide to Climatological Practices
    - 3.1.1 Commitments
      - 3.1.1.2 WMO Technical Regulations
        - WMO No. 100, Guide to Climatological Practices
    - 4.3 Climate metadata
      - 4.3.1 Observations metadata
      - 4.3.2 Dataset discovery metadat
    - 5.1 Ingest and Extract
    - 5.3 Observation quality control
    - 5.4 Quality assessment
    - 9.3 Computing infrastructure
      - 9.3.4 Data storage
  - who
    - data administrator
    - climatologist
  - where
  - when
    - continuously
  - why
    - for climate services