- 4.3 Climate metadata
  - what
    - Stations
      - 4.3.1.1 Station identifier
        - history of change
          - main unique dtb ID
            - national priority
          - WMO ID
            - urgent to change system
              - 11.6 Define a globally unique WMO identifier for stations
      - 4.3.1.2 Station overview
        - history of change
          - owner
          - manager
          - maintanence authority
          - maintenance personnel
          - licence agreement
          - data usage constraints
          - purpose
          - observation practices
          - observation schedule
          - observers
          - logistics
            - electricity suppliers
            - communications suppliers
          - maintenance logbook
            - observer training
            - material supplying
            - on-site revision
            - others
      - 4.3.1.3 Station status
        - operational
        - historical (not operational)
      - 4.3.1.4 Station type
        - history of change
          - type of operation
            - manned
            - automated
            - hybrid
          - type of observation
            - precipitation
            - climatological
            - agrometeorological
            - upper-air
            - profile/expedition
            - boya
      - 4.3.1.5 Station location
        - history of change
          - latitude
          - longitude
          - elevation
          - spatial reference system
          - administrative classification
            - political
            - administrative
            - natural
          - time zone
      - 4.3.1.6 Local environment
        - history of change
          - plans
          - skyline diagram
          - photograph, video
          - exposure
          - roughness
          - soil type
          - vegetation
          - land use
    - 4.3.1 Observation metadata
      - For the next version of the CDMS Specs, the Observations Metadata components will be transformed to be consistent with the new WMO WIGOS (Observations) Metadata Standard
        - BB
      - Instruments
        - 4.3.1.7 Sensor
          - history of change
            - description
              - name
              - type
              - serial number
              - brand and model details
              - in situ photo
              - supplier
              - manufacturer
              - manuals
              - firmware
              - in situ data storing
            - installation
            - operational status
            - maintenance
            - uncertainty
              - calibration protocol
            - siting details
              - heigh above ground
            - recomended sensor setings
            - meteorological variables (parameters)
              - 4.1 Observations data
              - frequency of measurement
              - frequency of acquisition
              - units of measurement
              - precision of measurement
      - Data
        - 4.3.1.8 Data processing
          - software
            - name
            - version
            - source
          - input
            - measured data
              - 4.3.1.7 Sensor
            - observed data
              - 4.3.1.2 Station overview
                - observer
          - output
            - data format
              - version
              - example
        - 4.3.1.9 Data transmission
          - frequency
          - interval
          - communication details
            - primary
              - contact person
              - network addresses
              - method of transmission
            - backup
              - contact person
              - network addresses
              - method of transmission
      - 4.3.1.10 Network
        - name
          - RBCN
          - RBSN
          - GCOS
          - others
        - priority
          - critical
          - essential
        - time of observations
        - reporting
          - standard WMO messages
          - others
          - reporting frequency
        - membership
        - contacts
    - 4.3.2 Dataset discovery metadata
      - 4.3.2.1 Dataset identifier
      - 4.3.2.2 Dataset overview
      - 4.3.2.3 Dataset data quality
      - 4.3.2.4 Distribution
      - 4.3.2.5 Access constraints
      - 4.3.2.6 Dataset maintenance
      - 4.3.2.7 Spatial representation
      - 4.3.2.8 Reference systems
    - 4.3.3 Data provenance
      - 4.3.3.1 What was changed?
        - 5.3.1.6 Data recovery
        - 5.3.3 Data monitoring
      - 4.3.3.2 When was it changed?
        - 5.3.1.6 Data recovery
        - 5.3.3 Data monitoring
      - 4.3.3.3 What was it derived from?
        - 5.4.2 Derived data
        - 8.2 Data discovery
      - 4.3.3.4 What was done to change it?
        - note: already done by 4.3.3.1 and 4.3.3.2 ???
          - No.
            - This needs to cater for e.g.
              - QC edits to observations data
              - edits to a dala set e.g. derived gridded data
            - this will probably be better handled by W3C PROV-O
            - BB
      - 4.3.3.5 How/why was it changed?
        - 5.1.1 Data ingest
        - 5.2.3 Data entry
        - 5.3.1 Quality management
      - 4.3.3.6 Who/what changed it?
        - 5.1.1 Data ingest
        - 5.2.3 Data entry
        - 5.3.1 Quality management
      - 4.3.3.7 Who did they act on behalf of?
        - 4.3.1.2 Station overview
      - 4.3.3.8 Who was responsible?
        - 4.3.1.2 Station overview
    - Revision track record
      - Drafted
        - Radim
      - Revisioned
        - brief edit
          - Bruce
          - 2017-01-16
      - Finalised
  - Related
    - 3.1.1 Commitments
      - 3.1.1.2 WMO Technical Regulations
    - W3C
      - Moreau, L., Missier, P., eds., 2013: PROV-DM – The PROV data model
        - http://www.w3.org/TR/prov-dm/
      - Groth, P., Moreau, L., eds., 2013: PROV-overview – An overview of the PROV family of documents
        - http://www.w3.org/TR/prov-overview/
    - 3.1 Data policy
      - 3.1.2 Sustainability
      - 3.1.6 Climatology policy
        - 3.1.6.1 Climate metadata
    - 5.5 Climate metadata
    - 8.2 Data discovery
  - who
    - data administrator
    - climatologist
  - where
  - when
    - on-line
    - day after day
  - why
    - to improve the description of climatological data
    - analysis of data homogeneity
- 4-3-Climate metadata-US1.docx
- 4-3-Climate metadata-US2.docx
- 5-3-Observations quality control-US2.docx