- 5.4 Quality assessment
  - what
    - 5.4.1 Observation
      - 5.4.1.1 Siting classification
        - WMO-No. 8, Guide to Meteorological Instruments and Methods of Observation
          - Annex 1.B Siting classifications for surface observing stations on land
        - classification of sensor's surrounding
        - rating scale
      - 5.4.1.2 Sustained performance classification
        - sustained performance over time
        - calibration processes
      - 5.4.1.3 Multilayer quality flags
        - WMO-No.100, Guide to Climatological Practices
          - pp. 3–8 to 3–9
        - quality flag for value
        - quality flag for record
        - information about:
          - validation level
            - 5.3 Observations quality control
              - 5.3.1 Quality management
            - original
            - validated
            - corrected
            - reconstructured
          - aquisition method
            - observed
            - calculated
      - 5.4.1.4 Climate observation quality classification
        - 7th Data Management Workshop of the European Climate Support Network (ECSN)
        - sitting clasification
        - sustained performance classification
        - regular maintenance and calibration
        - sensor reliability
        - uncertainty inherent in observations
        - observation quality control processes
        - multilayer quality flags
        - lineage
        - homogeneity
        - other factors
    - 5.4.2 Derived data
      - quality of source data
      - raw derived data
        - derived algorithm
      - spatial derived data
        - method of spatial interpolation
    - 5.4.3 Quality assurance metrics
      - statistics of validation level
      - number of errors
      - amount of operator interventions
      - historical evolution of metrics
    - 5.4.4 Uncertainty
      - 5.4.4.1 Measurements
        - description of processes
        - software
        - governance
      - 5.4.4.2 Derived data
        - description of calculation
        - software
        - uncertainty of source data
    - Revision track record
      - Drafted
        - Radim
      - Revisioned
      - Finalised
      - more work required
        - allow for multiple categories of quality flags
          - WMO
          - Domain
          - phenomena
          - NMHS
          - National
        - look at using ISO 19157 as an appropriate framework
          - analysis required to see if this is appropriate
        - bb
          - Jan 2017
  - Related
    - 3.1 Data policy
      - 3.1.1 Commitments
        - 3.1.1.2 WMO Technical Regulations
          - WMO No. 488, Guide to the Global Observing System
            - Appendix VI.1 Data quality control
            - Appendix VI.2 Guidelines for quality control procedures applying to data from automatic weather stations
          - WMO No. 100, Guide to Climatological Practices
          - WMO/Td No. 111, Guidelines on the Quality Control of Surface Climatological Data
            - http://library.wmo.int/opac/index.php?ivl=notice_display&id=11700
          - WMO/Td No. 1376, Guidelines on Climate Data Management
          - WMO No. 305, Guide on the Global Data-processing System
            - Chapter 6 Quality control procedures
      - 3.1.4 Data delivery
        - 3.1.4.2 Quality of delivered data
      - 3.1.6 Climatology policy
        - 3.1.6.2 Data lineage traceability
        - 3.1.6.6 Quality assurance
      - 4.3.3 Data provenance
      - 5.3 Observations quality control
        - 5.3.1 Quality management
  - who
    - data administrator
    - climatologist
  - where
  - when
    - month after month
  - why
    - to improve the quality fo data
    - to improve the quality of services