**Type of experiment**: EDS

**Author(s)**: Uzair Rehman, Philipp Keuter

**Comments:**

Metadata template for the EDS measurements in SEM

------------------------------------------------------------------------------------------------------------

*PLEASE DO NOT CHANGE THIS – USE COMENTS TO INCUDE MORE INFO!*

**Legend:**

**Bold** shows the metadata to be included

(brackets) show what type of value is associated, e.g. ‘string’ *“this is a string”*, int *5*, float *3.33*, or fixed set of options *[“red”, “blue”, “green”]*.

*Italic* font shows the example user input

Light blue highlights meta data to be included in a CoScInE mask for new ressources

Light green highlights meta data that is important but is preserved in other files for now and could later be captured automatically (please still include here explicitly!)

Light yellow highlights meta data that may be inserted as part of another experiment (here = “metallographic preparation” or might be better to keep with the imaging records – t.b.d.

Light grey that this meta data is not essential but might be good include (please do include here whatever meta data you can think of for now!

Please define all but the most trivial of acronyms!

You can provide structure to your metadata by including a **[descriptive header]** and then including sub-pieces of metadata tab-indented.

------------------------------------------------------------------------------------------------------------

**Operator** (string)

*Your Name*

**Experiment ID** (string)

*e\_77\_xyz*

**Instrument used** (string)

*Jeol SEM\_MCh*

**Measurement time/date** (string)

*10.04.2020, 16.45*

**[Sample information]**

**Specimen ID** (string)

*180704\_C076\_Name15:M-9*

**Parent sample specimen ID**(string)

*Mg-Ca\_19, solid solution, 2017-05-18*

**[This is per aquisition]**

**Measurement position** (string)

*5 mm from left edge, 1mm above red marker, P17*

**Accelerating voltage [kV]** (float)

*5*

**Standard used** (string)

*None, ERDA\_MgCaAl\_170513*

**Magnification** (float)

*10,000*

**Dwell time [s]** (float)

*100*

**Tilt [deg]** (float)

**Acquisition mode** (set [“Point scan”, “Line scan”, “Mapping”])

*Line scan*

**Comments** (string)

*Columnar grain boundary*

**Count rate [cps]** (float)

*2,000*

**Spot Size** (float)

*54*

**Working distance [mm]** (float)

*10.1*

**[Analysis information]**

**Elements included/Peak ID** (string)

*Mg (K), Ca (K), O (K)*

**Background method** (string)

*Auto, curve*