

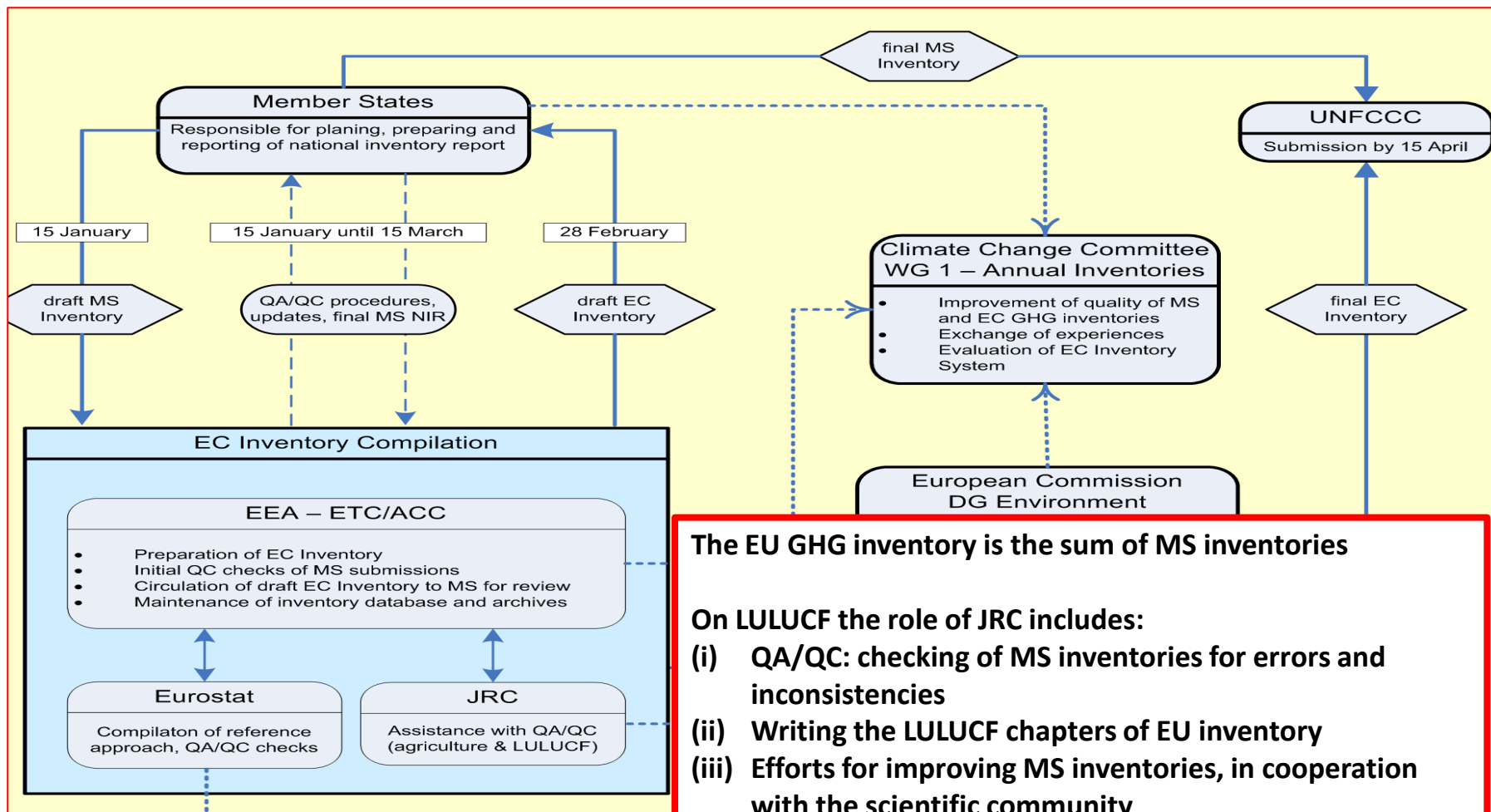


# **Main issues identified during 2013 QA/QC cycle by the JRC**

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***JRC's KP LULUCF workshop, 27-28 February -1 March 2013, Ispra (IT)***

# THE EU GHG MONITORING MECHANISM:



**The EU GHG inventory is the sum of MS inventories**

**On LULUCF the role of JRC includes:**

- (i) QA/QC: checking of MS inventories for errors and inconsistencies**
- (ii) Writing the LULUCF chapters of EU inventory**
- (iii) Efforts for improving MS inventories, in cooperation with the scientific community**

### (III) Efforts for improving MS inventories, in cooperation with the scientific community

- 1) JRC **KP/LULUCF workshops (annually since 2004)** (at: [http://afoludata.jrc.ec.europa.eu....events\\_policy](http://afoludata.jrc.ec.europa.eu....events_policy))
- 2) **online database** - AFOLU DATA
- 3) **EU internal review** exercise (voluntary support, workshops ):
  - decision trees on the use of notation keys
  - decision tree on pools to be reported (“not a source”)
  - ‘JRC analysis’: MS approaches for “not a source”, reporting pools in FL to SL
- 5) Continuous **improved QA/QC process**
- 6) EC's **support projects**: KP support & LULUCF MRV
- 7) **On request support** (e.g. on SP, interpretation issues)

# Overview of EU QAQC process

- Initial submission of CRF tables by MS (15 January)
- Completeness check (identification of 'NE' and 'NO', 'NA' by 20.01.2013)
- Closing of 'initial' QAQC check (15/20<sup>th</sup> March)

MS comments initial checks/updates CRF/NIR to EU/EEA CDR	15-mar						
<b>Cut-off date for 15 April submission</b>		20-mar					
Issues for clarification into web tool			27-mar				
Gap filled estimates to MS			29-mar				
MS concerned provides comments on gap filling				08-apr			
Final version EU GHG inventory report					15-apr		
MS resubmissions CRF/NIR to EU/EEA CDR						15-mag	
Resubmission EU GHG inventory report							27-mag

# EU QAQC issues 2013 – general issues

- Use of **notation keys**
  - 'NR' in KP NIR 2 and 'NE' in KP sectoral tables, with 'NE' in GHG inventory tables
- **Inconsistent time series** (e.g. 2 MS not meeting the "Land balance principle": sum of all land uses constant over time)
- **Recalculations**
  - Report reasons, methodological changes and quantitative effect
- **Incomplete time series** (estimates reported only starting 2008, linked to KP apparently)
- **Annual transition** period for L-SL conversion
- **Inappropriate proxies** for SOM area (e.g. share of area (%) or forest type can not be used as proxy for soil type)

# Reporting and accounting tables

- **Different organic soils area** in table 5B and cultivation of histosols in 4.Ds1
- **Checks of 'drained area'** in Table 5(II) with 'organic soils' area under land categories
- **Inconsistency in area across years** reported KP NIR 2 table
- Area **inconsistency between KP NIR2 and KP sectoral tables**
- **Inconsistent area for estimation of non-CO2 emissions** - 'FL, GL converted to CL' reported in 5B2/D and Table 5(III)/5(KP-II)3
- Data on ARD, FM is **irrelevant for base year** KP CRF tables (please remove it, since affects EU submission)

# KP-UNFCCC tables consistency

whenever area of ...

**AR (afforestation)  $\neq$  5A2 (conversion to Forestland),**

**D(deforestation)  $\neq \sum(5B2.1, 5C2.1, 5D2.1, \dots)$  (conversions from Forestland)**

**FM (forest management)  $\neq$  5A1 (Forestland)**

CL, GL and their conversions  $\neq$  GM, CM and their conversions since 2008

... to provide **explanation, explicit tables on their correspondence** in NIR chapter and possibly **one example** of how tables link among themselves (e.g. if there is non-direct human induced 5A2)

and ...

very useful, report KP activities **on land sub-categories/divisions**

# Issues on estimation of C pools and GHG sources

- SOMmin is reported as sink in both FL to/from CL(D/AR)
- BGB to ABG ratio is high
- IEF for SOMmin and LT in AR high ( $>1.5\text{tC/ha/yr}$ ) – add adequate info in NIR
- We considered SOM+LT+DW IEFs  $>0,3\text{tC/ha/yr}$  for FM as little credible – to add adequate info in NIR
- Unlikely that LT+DW+SOM pools have higher sink than LB
- Quantitative change of 'LT+DW+SOM' pools close to 'LB'
- Unrealistic C/N ratio between CO<sub>2</sub> in 5B2 & N<sub>2</sub>O in Table 5(III)
- Reporting 'NO' for CO<sub>2</sub> emissions from organic soils under FL and FM area (no IPCC guidance under particular circumstances of drainage followed by rewetting)



# Recommendations

- Useful to report KP activities explicitly on land sub-categories/divisions under KP activities
- Always check the consistency between tables
- Make use of “comments” to the cell when “not a source” and provide NIR references in the “documentation box”
- Use of notation keys with justifications (transparency issue)
- Consider the EU issued completeness & QAQC findings
- EU has a commitment and has to compile CRF tables and NIR
- Please follow: KP support forum on wikidot