IEO: Work flow from data collection to the CDI

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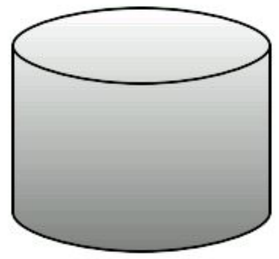
- Data standarization
- Data loading in the IEO System
- CDIs generation & sending to Centrar Calatolgue
- Download Spanish data
- Summary of Tools used

Spanish Catalogues

Creating and loading metadata catalogues

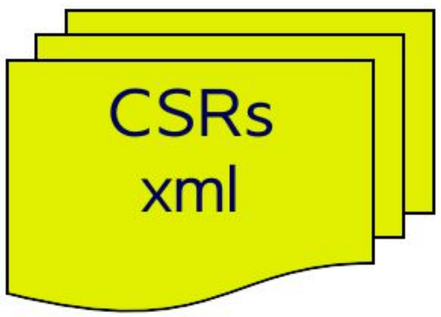
CSRs are created onboard using MIKADO, which include information relative to other catalogues: EDMO,EDMEDP. If they are not in the central catalogue a new record is loading online by the datacenter.

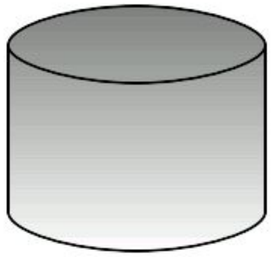
EDMO, EDMEDPR



MARIS Central Catalogue

The CSR is validated at the Data Center and sending to the Central catalogue





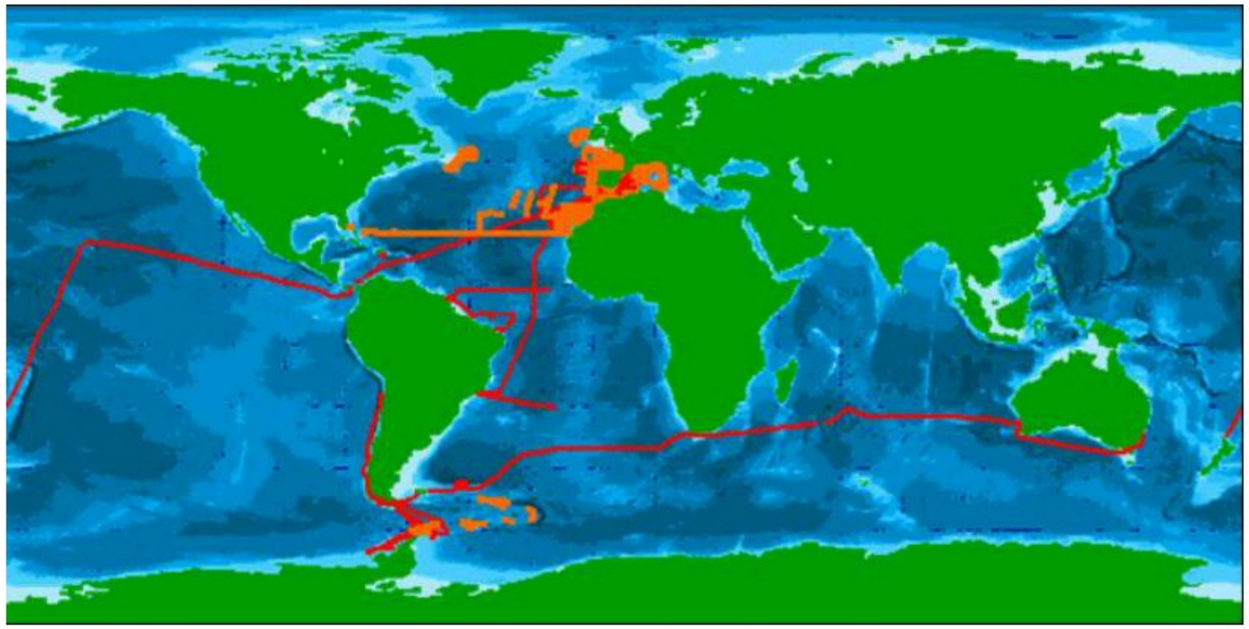
CSR Central Catalogue

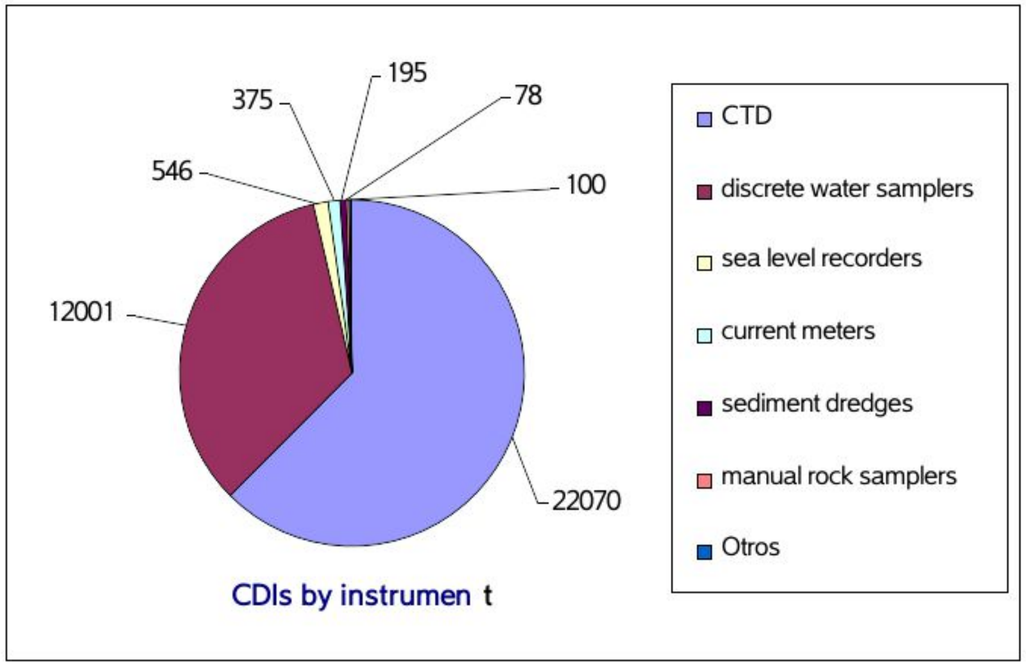
But there is not a regular procedure to colect the data. Just contacting to scientist by telephone or e-mail.

CATALOGUES

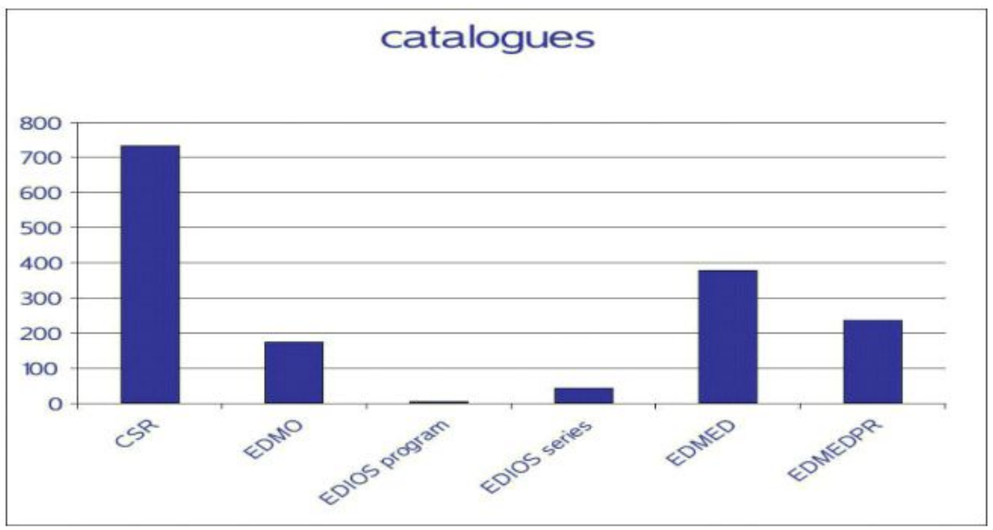
EDIOS & EDMED are created with Mikad. Sending c.catalogue by e-mail

CDIs: 35365 CDIs from 22 labs, 12 instruments and 4 platforms





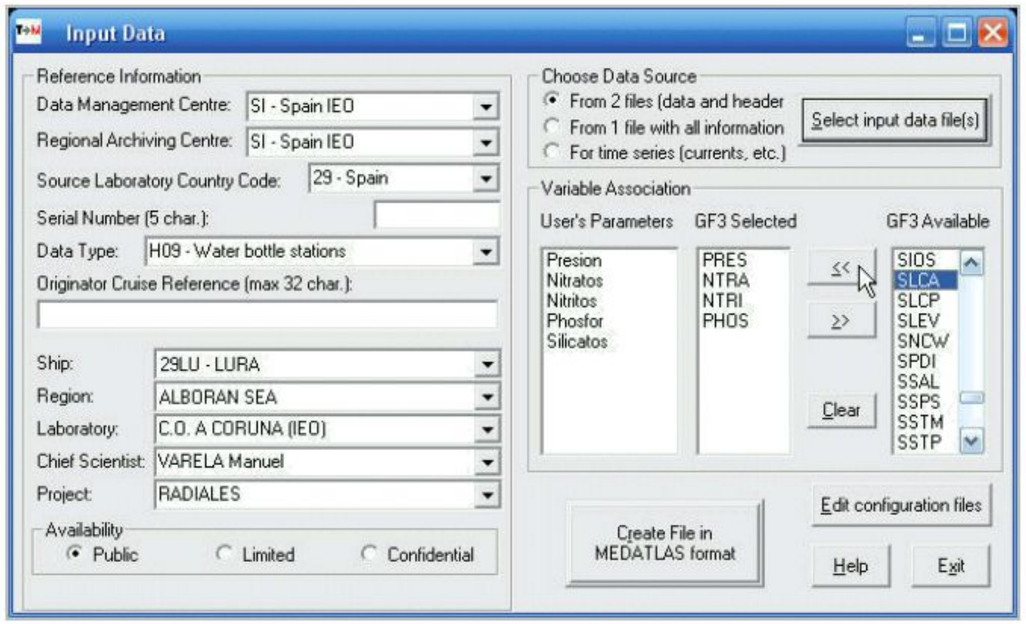
DAtTA ACCESSI	
Unrestricted	18072 (51.1%)
By negotiation	17293 (48.9 %)
Total	35365 (100%)



Work flow. Data standardization

Reformatting & QC data from originator to SDN Format

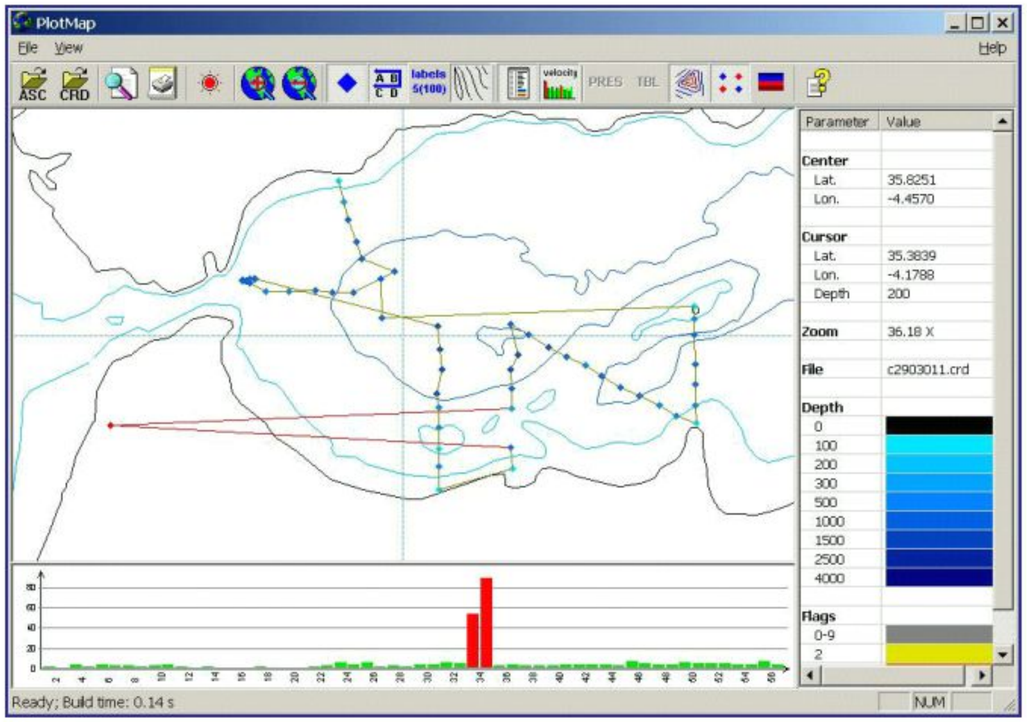
ASCII → App (QCDAMAR) → MEDATLAS FORMAT → MedMed2SDN → SDN MEDATLAS FORMAT

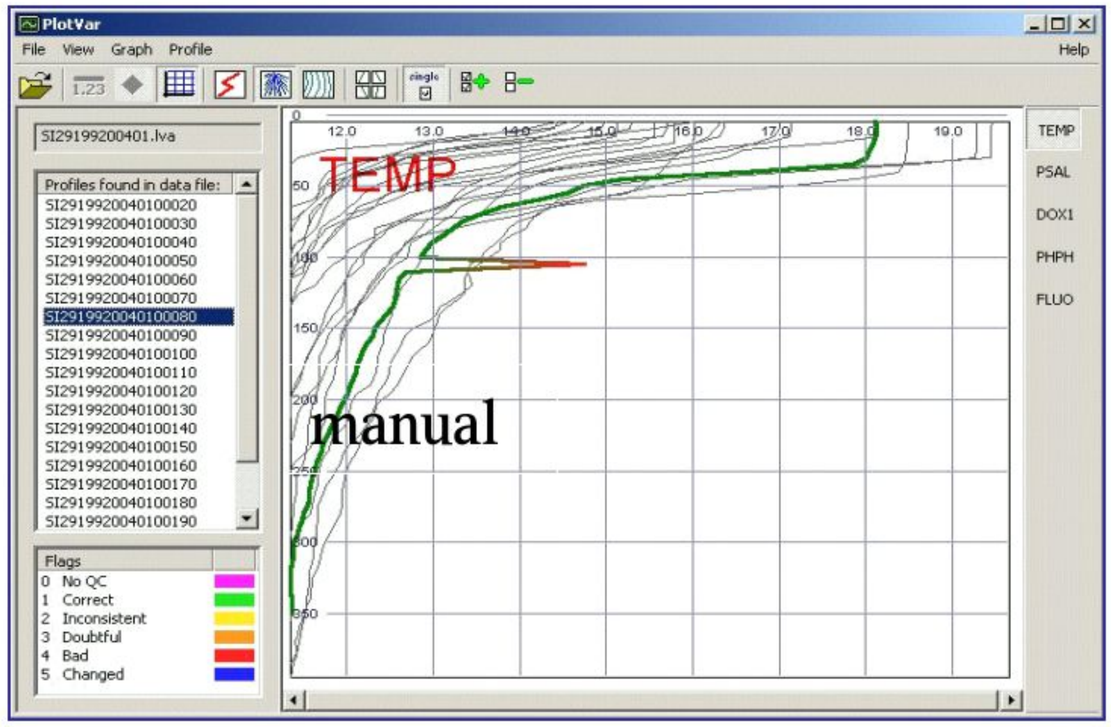


Building the MEDATLAS format using ROSCOP code for data type, extended GF3 for parameter codes & more configuration files for metadata

Work flow. Data standardization

QCDAMAR: Visualization. SDN flag scale

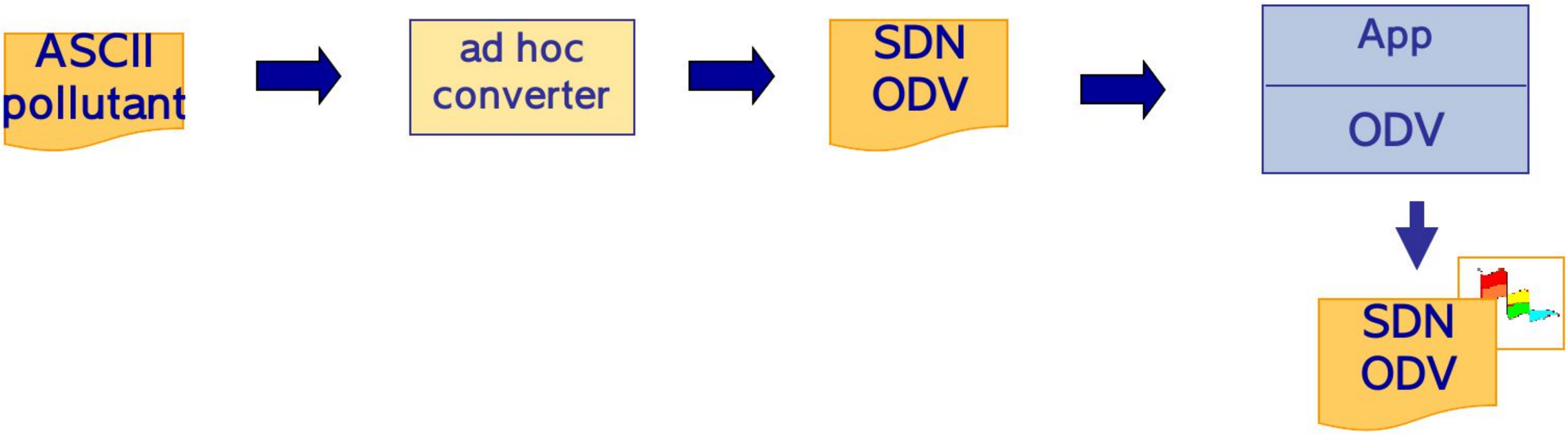




Due to some errors in the output format of QCDAMAR, we have started to make a final validation using ODV software before loading the data in the IEO DM server.

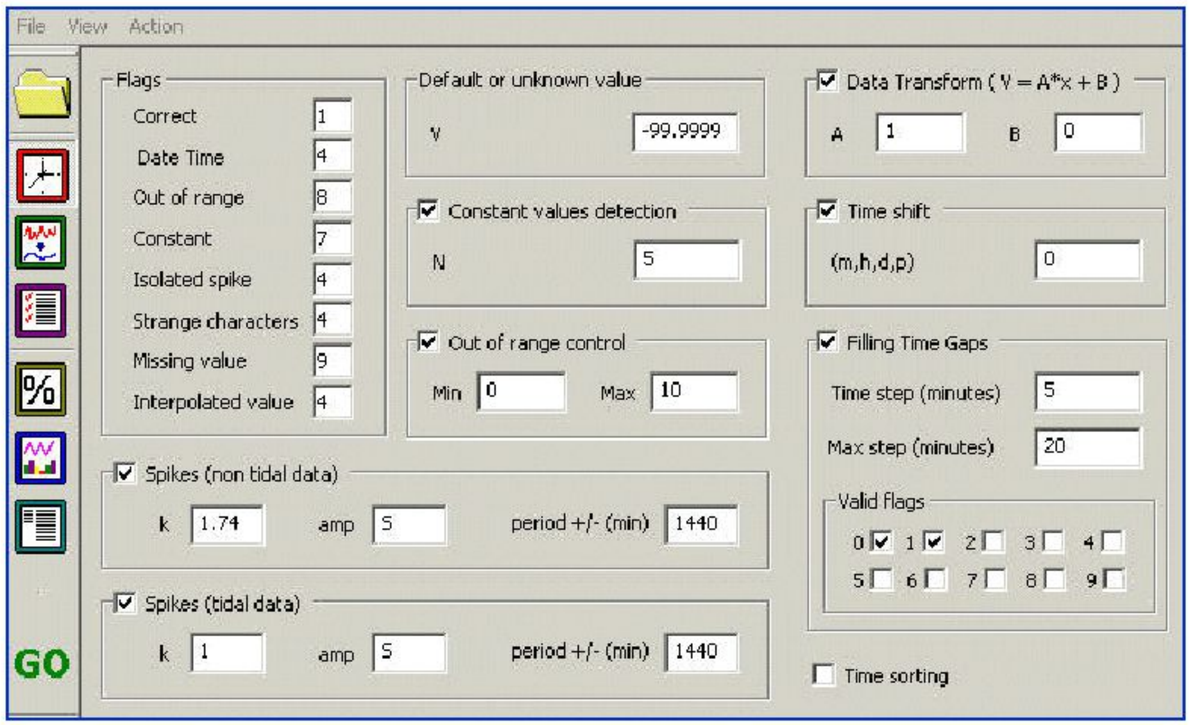
Work flow. Data standardization

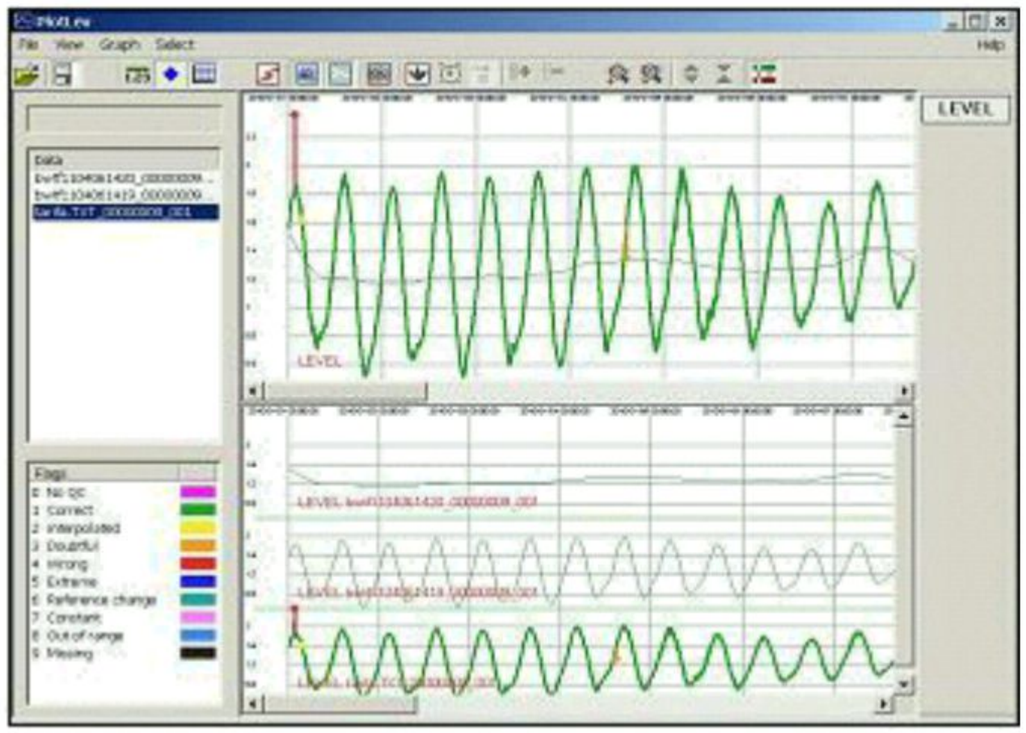
Reformatting & QC data from originator to SDN Format for IEO sea level network data and pollutant data



Work flow. Data standardization

QCMAREAS Visualization





flags configuration to SDN scale

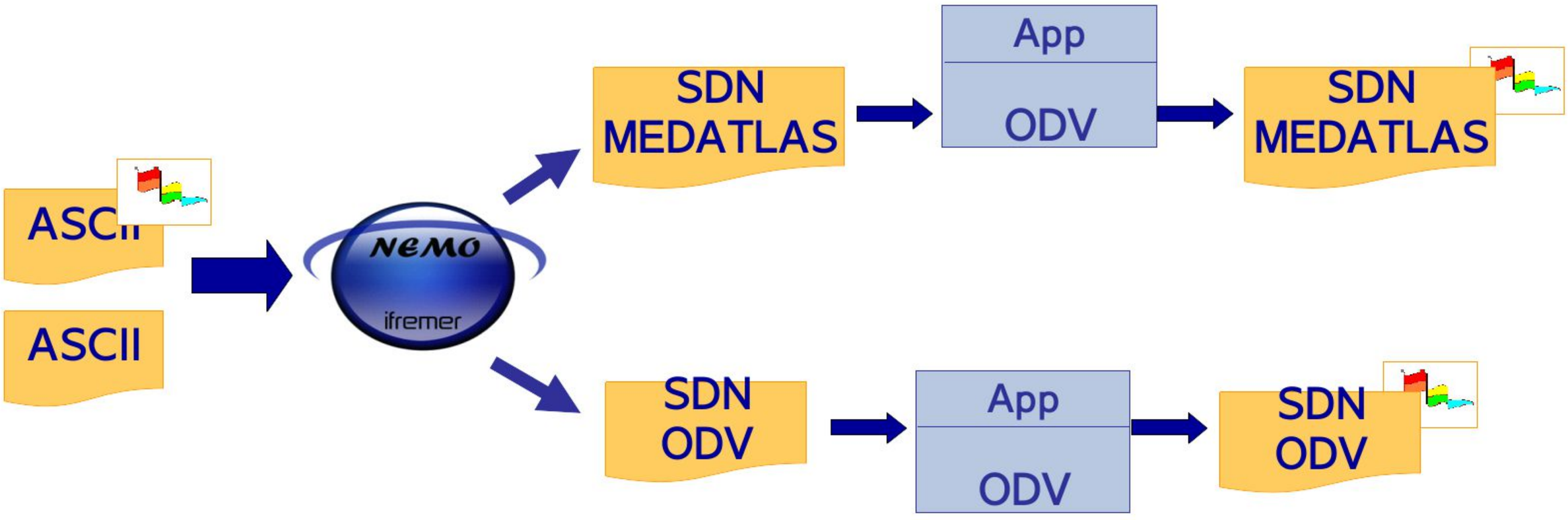
Input and qc data visualization

SeaDataNet

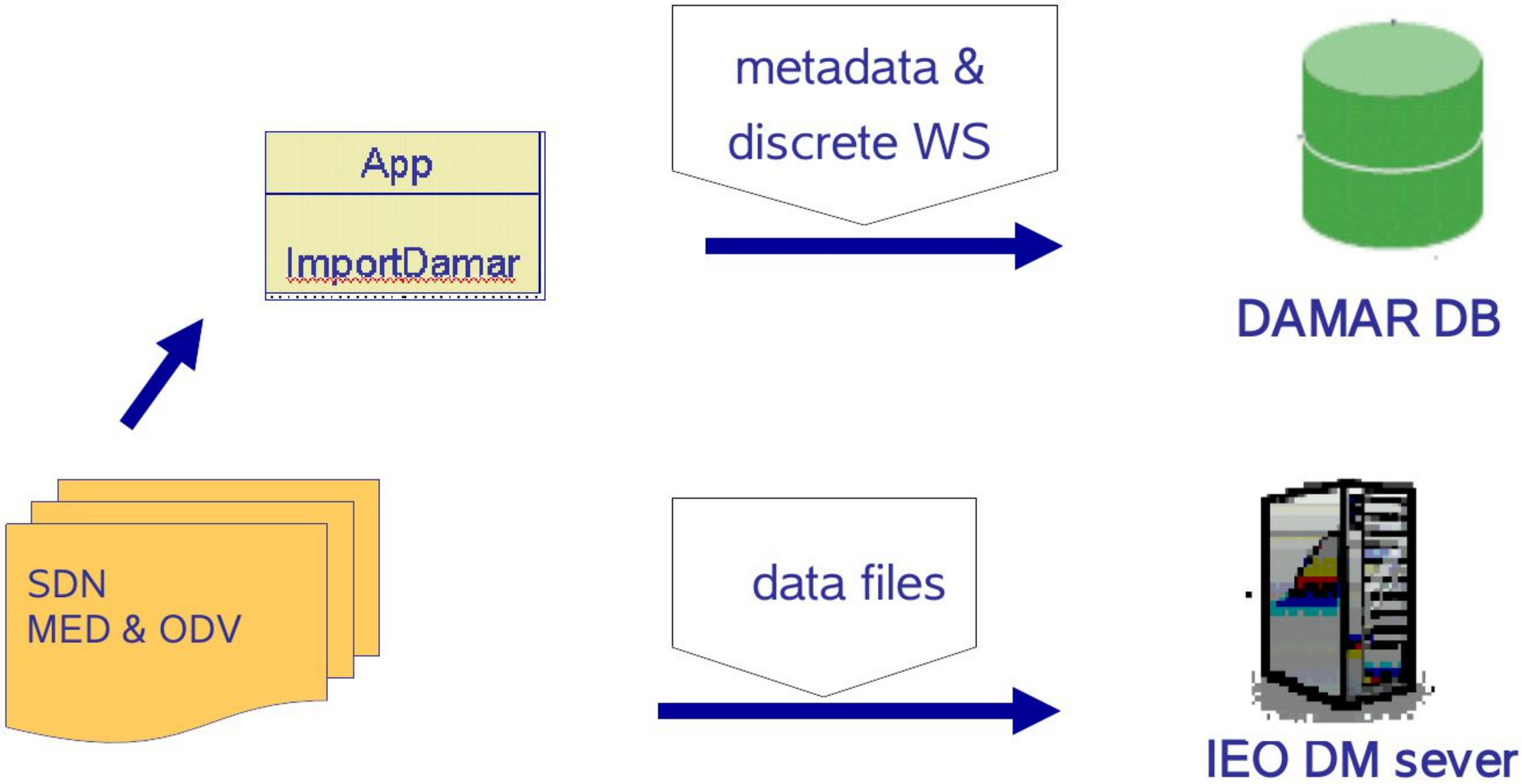
Work flow. Data standardization

Reformatting & QC data from originator to SDN Format

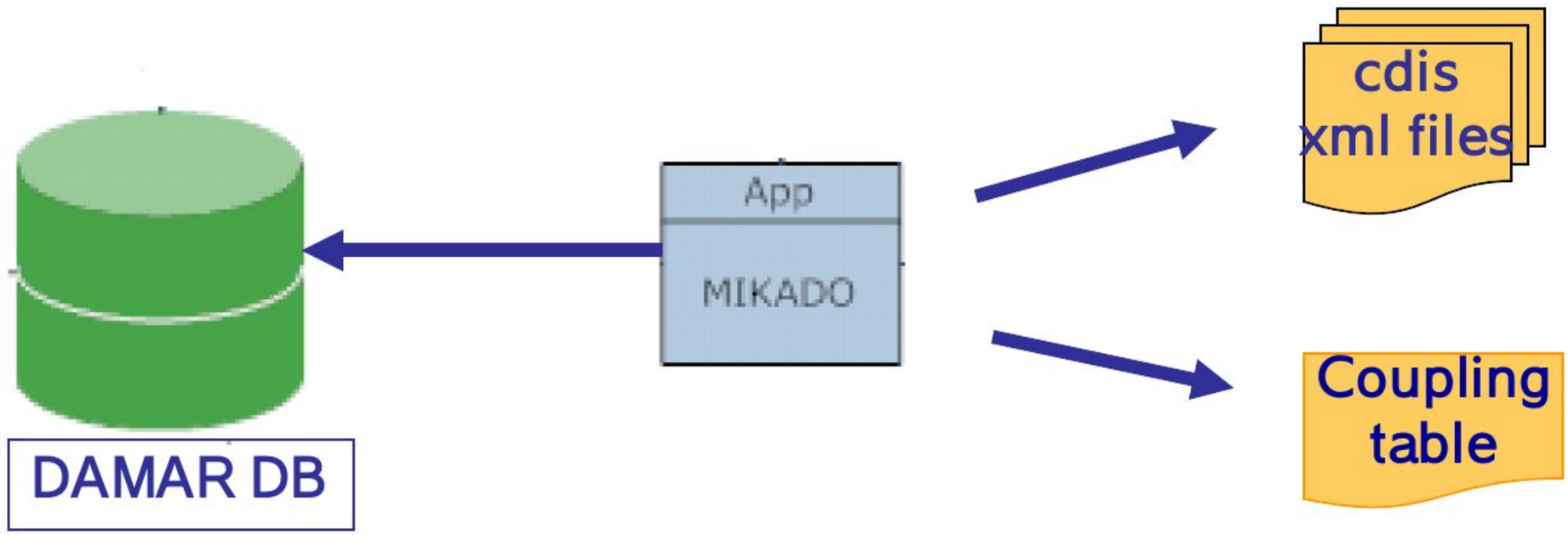
Started to work with the SDN tools for two reason:
1) avoid errors in data format and ensure the SDN vocabulary
2) not needed to upgrade the QCDAMAR software



Work flow. Data loading



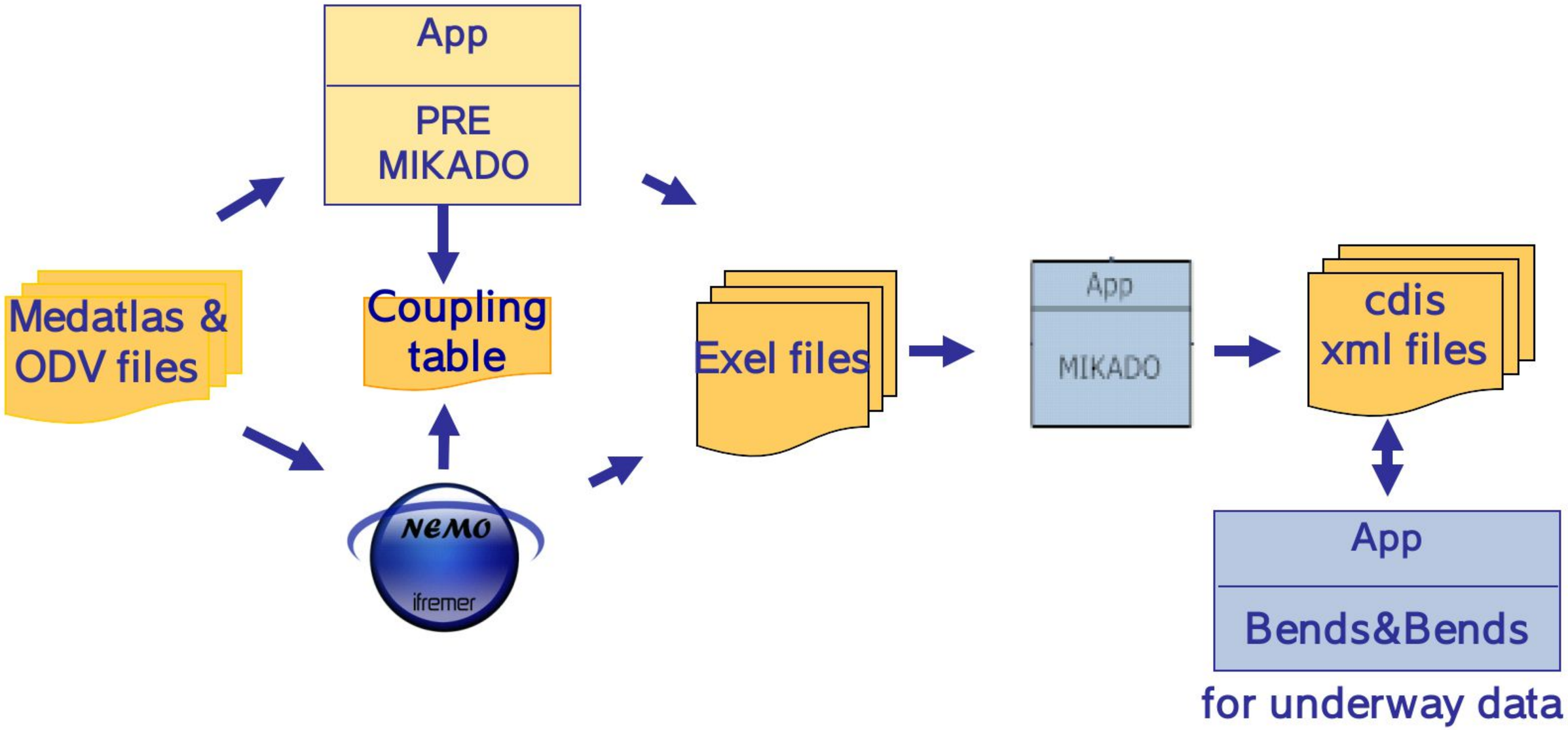
Work- flow. CDIs generation from Database



With the appropriated queries configuration

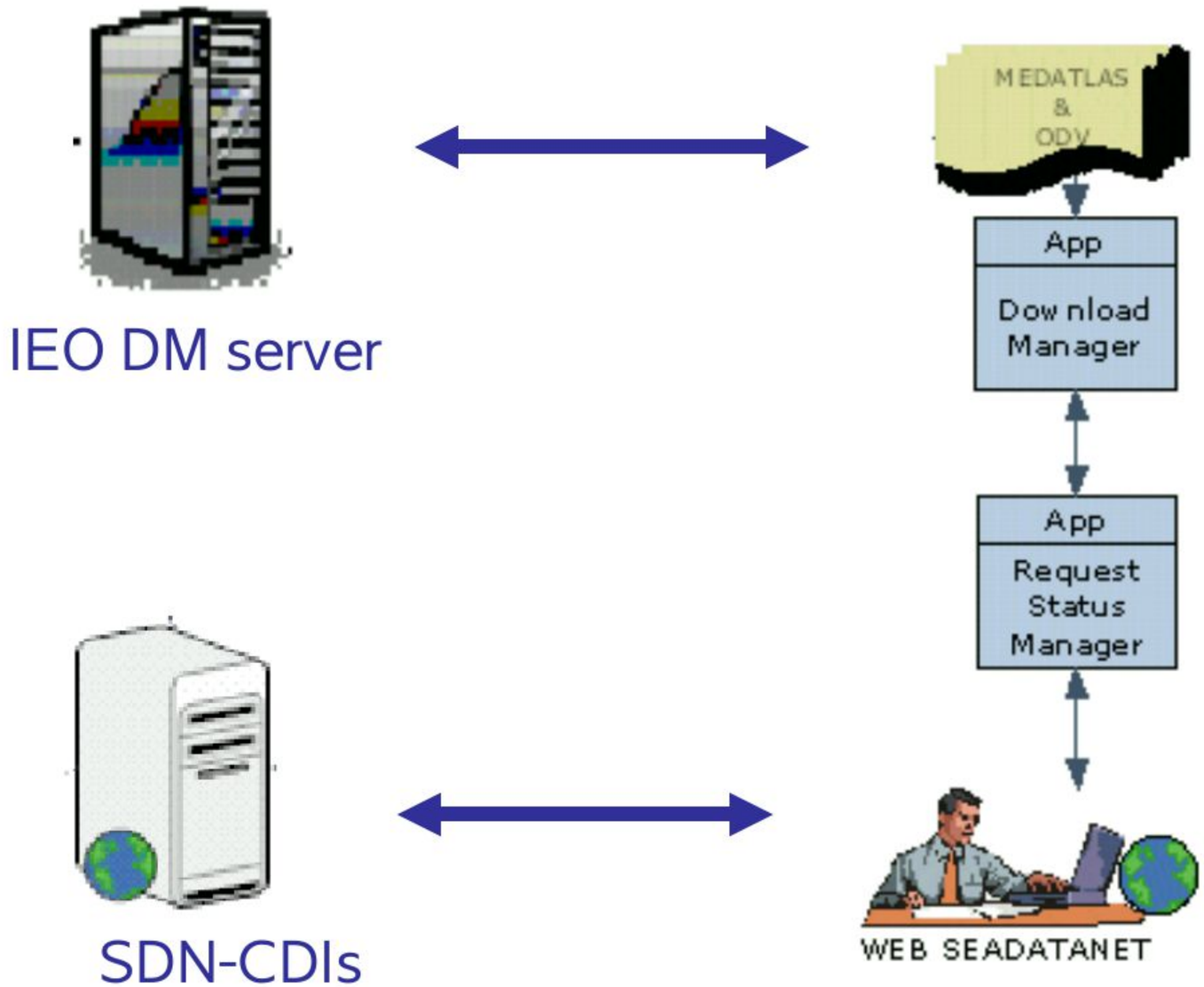
Work- flow. CDIs generation from Data files

When the metadata is not loaded in the DB



Work- flow. CDIs sending to Central Catalogue

Work- flow. Downloaded data from IEO DM server



Summary of tools used

- **IEO Tools**

: DAMAR SYSTEM: Relational DB and applications

QCDAMAR: data formating to MEDATLAS format & QC

QCMAREAS: sea level data Quality Control

Ad hoc converter: reformating different data types to ODV:

PRE MIKADO: extract the metadata information from MEDATLAS & ODV files

- **SND Tools**: ***MIKADO, NEMO, ODV, MedMed2SDN & Bends&Bends***

We are moving to work with the **SDN Tools** NEMO & ODV instead of QCDAMAR and PRE MIKADO. We will continue working with DAMAR SYSTEM and QCMAREAS, an also QDAMAR will be used for a preliminar QC.