



# PADC VO

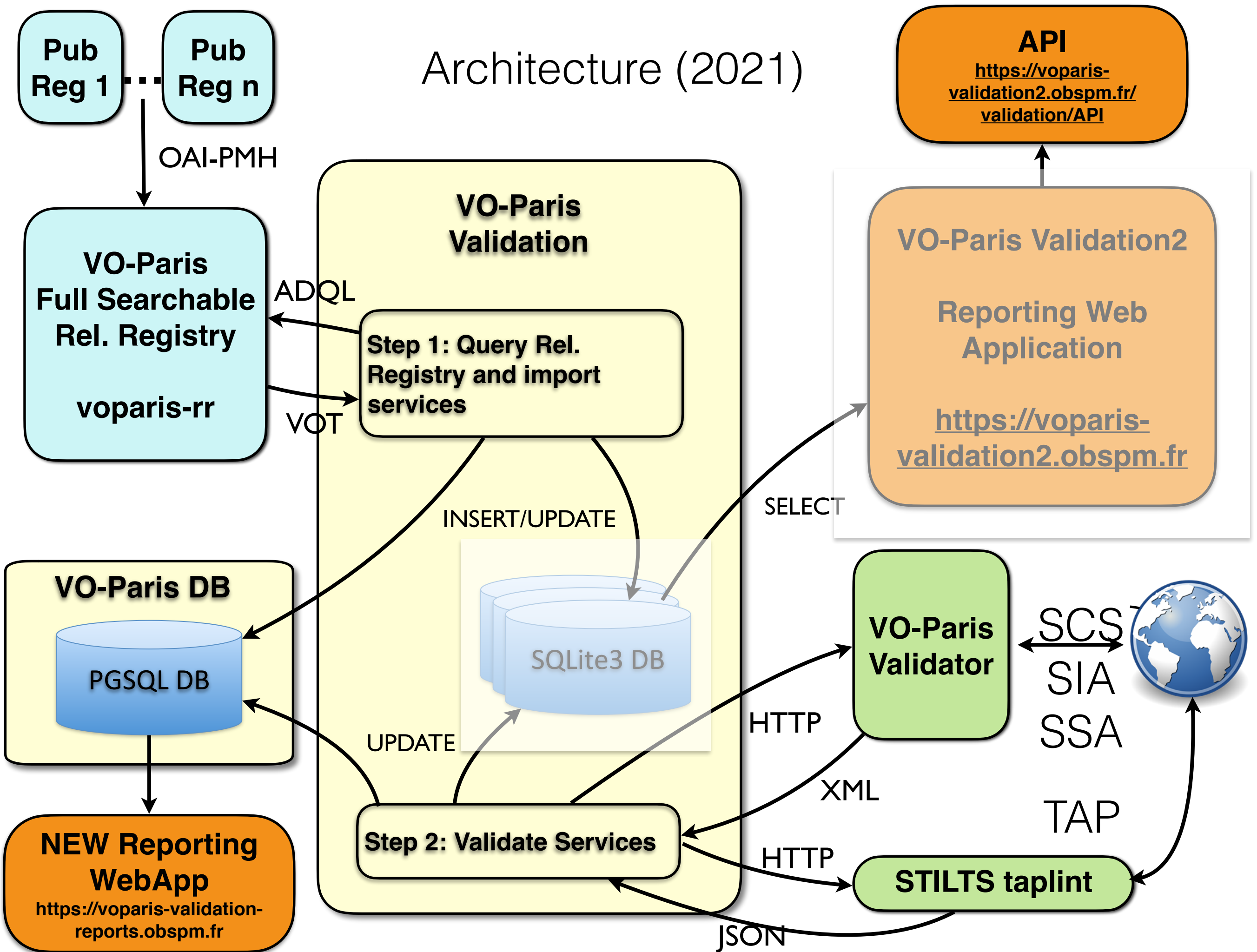
# Weather Report

Renaud Savalle, Pierre Le Sidaner

PADC, Observatoire de Paris, France

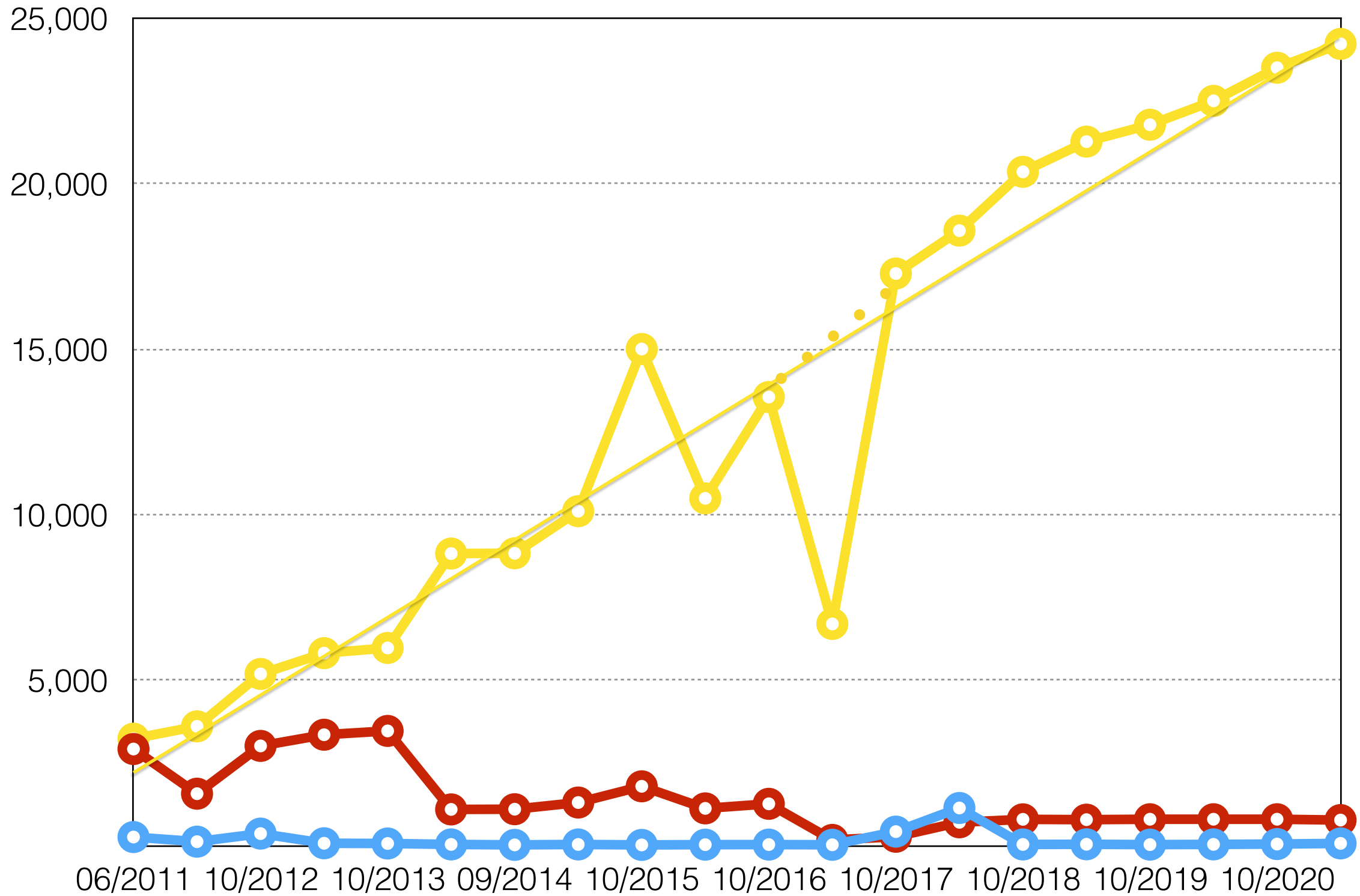
IVOA Interop Meeting - VIRTUAL - 2021-05 - Operations IG

# Architecture (2021)

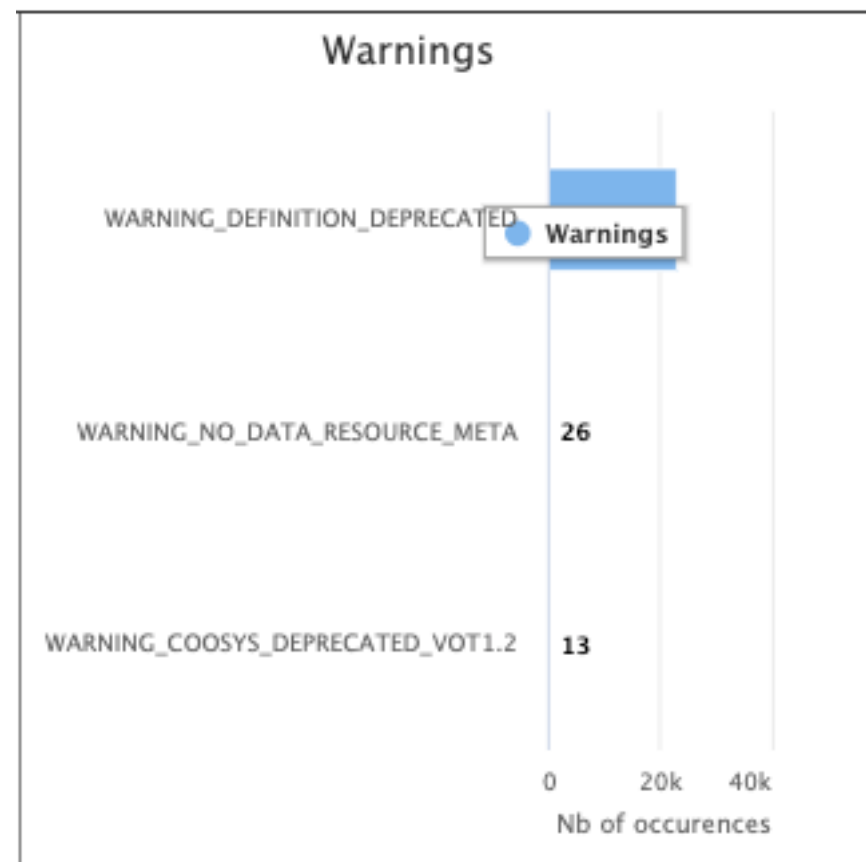
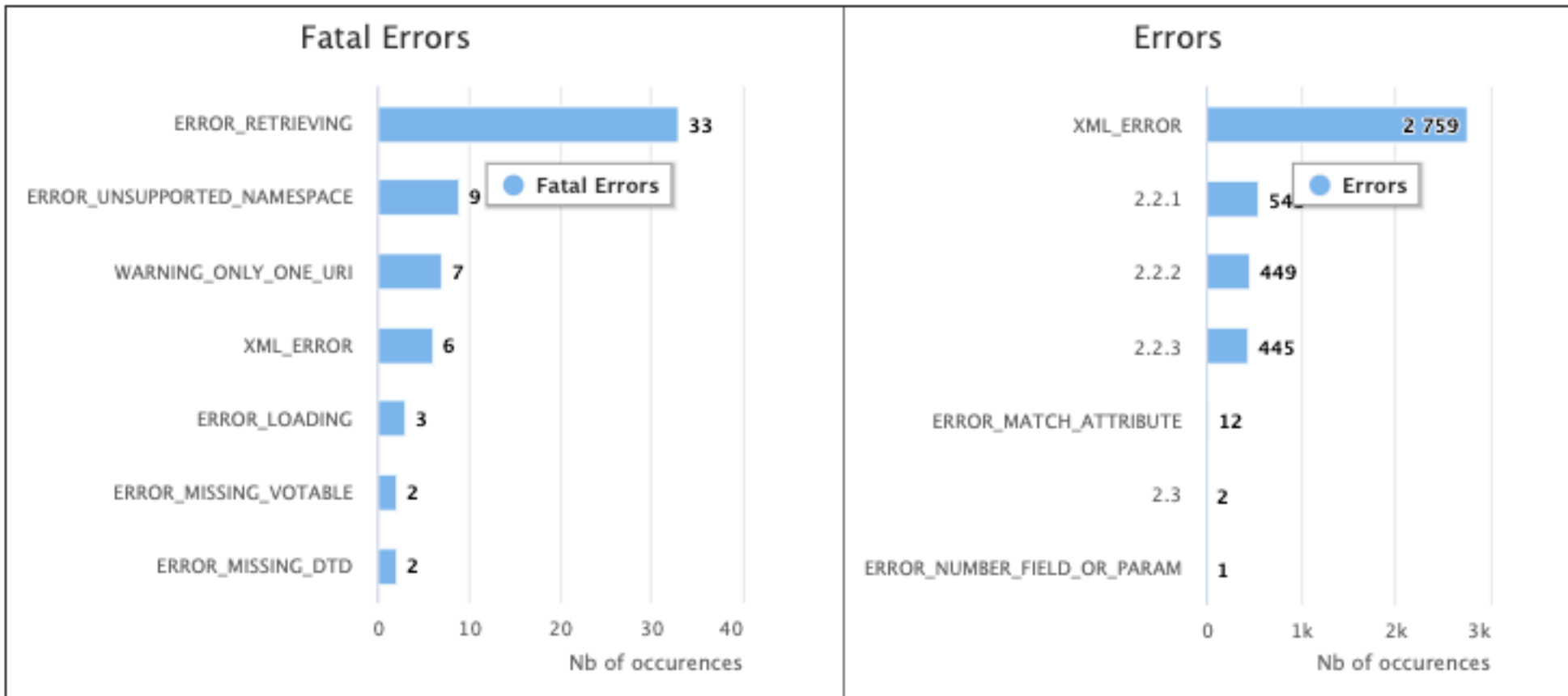


# CS History

Not Respond.      Error      Valid



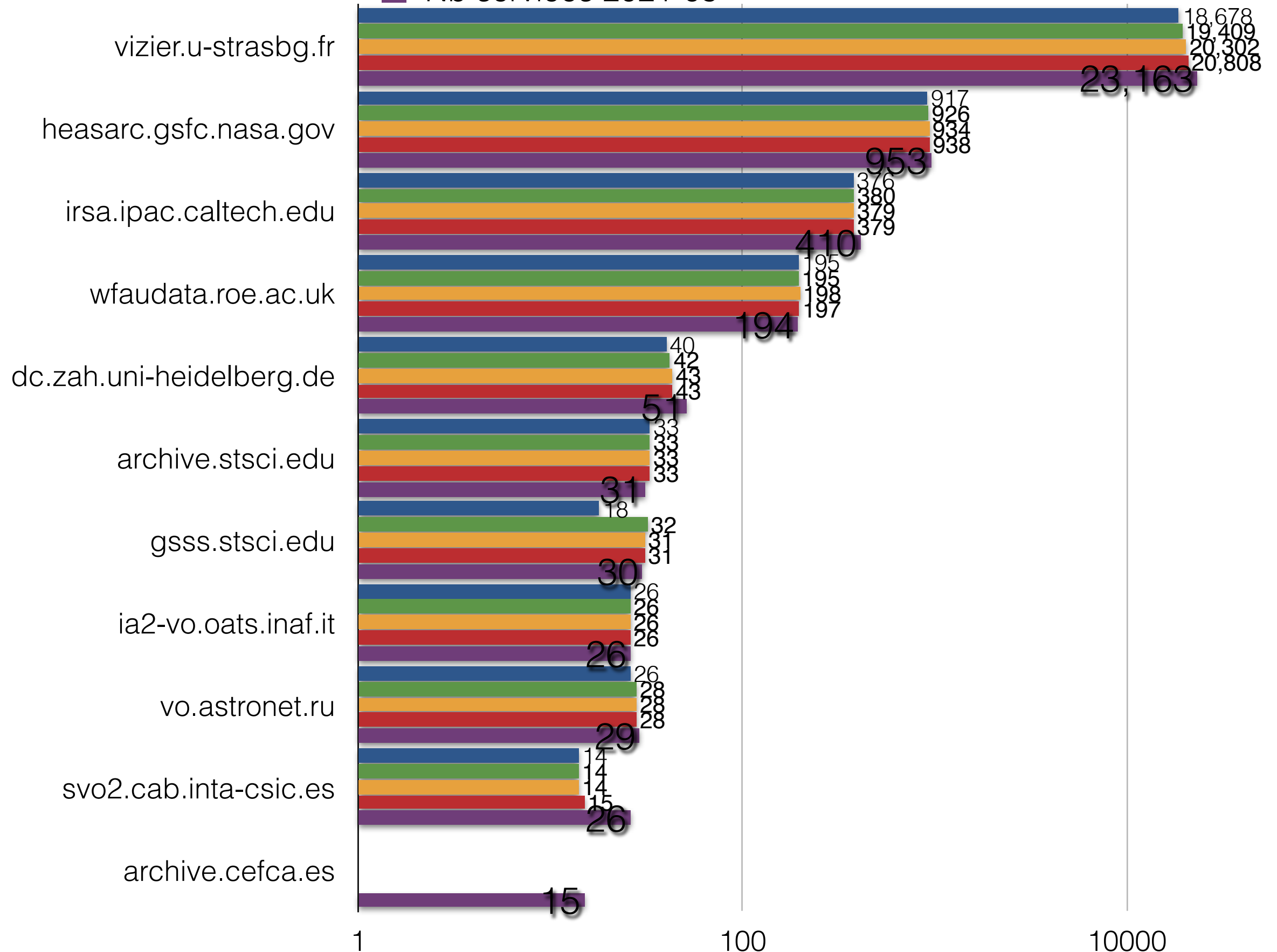
# 2021-05 CS error frequencies



# TOP CS Providers

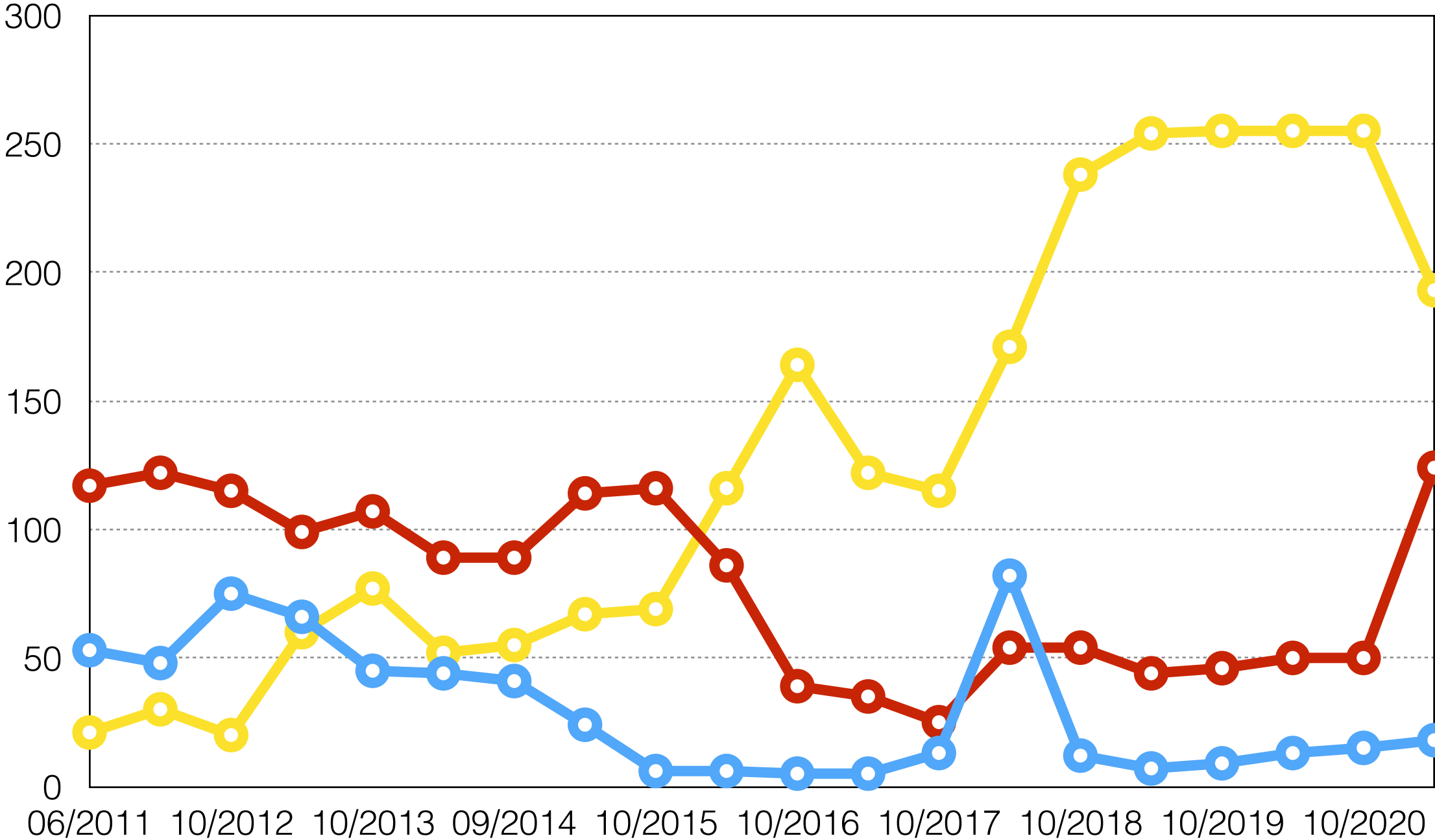
(more than 10 CS service)

- Nb Services 2018-05
- Nb services 2019-05
- Nb services 2021-05
- Nb Services 2018-10
- Nb Services 2019-10

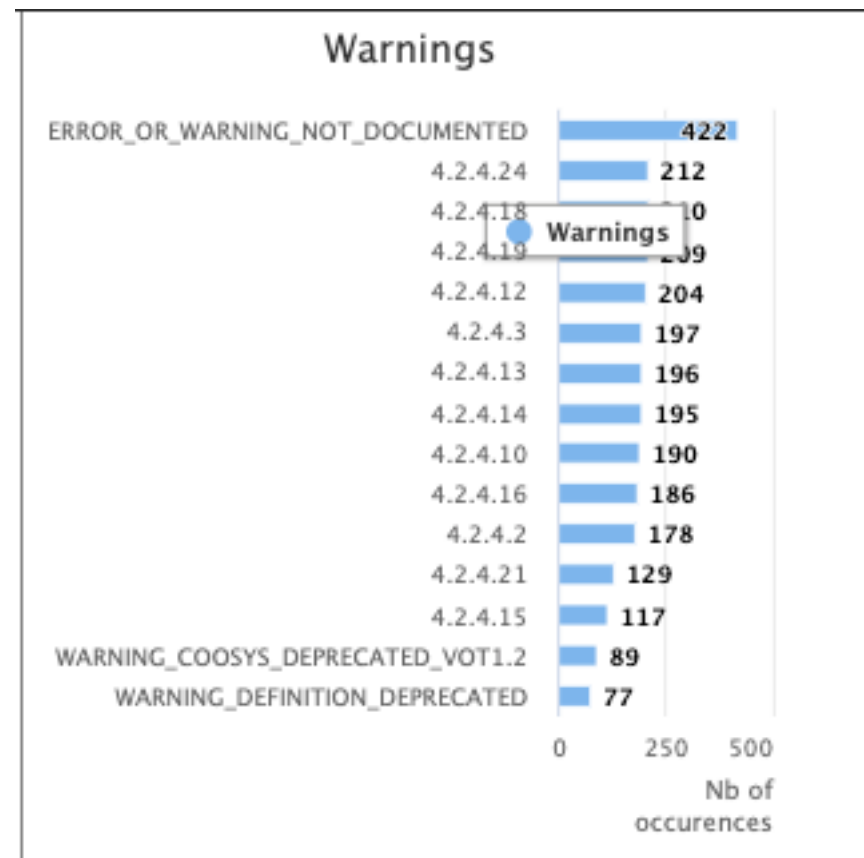
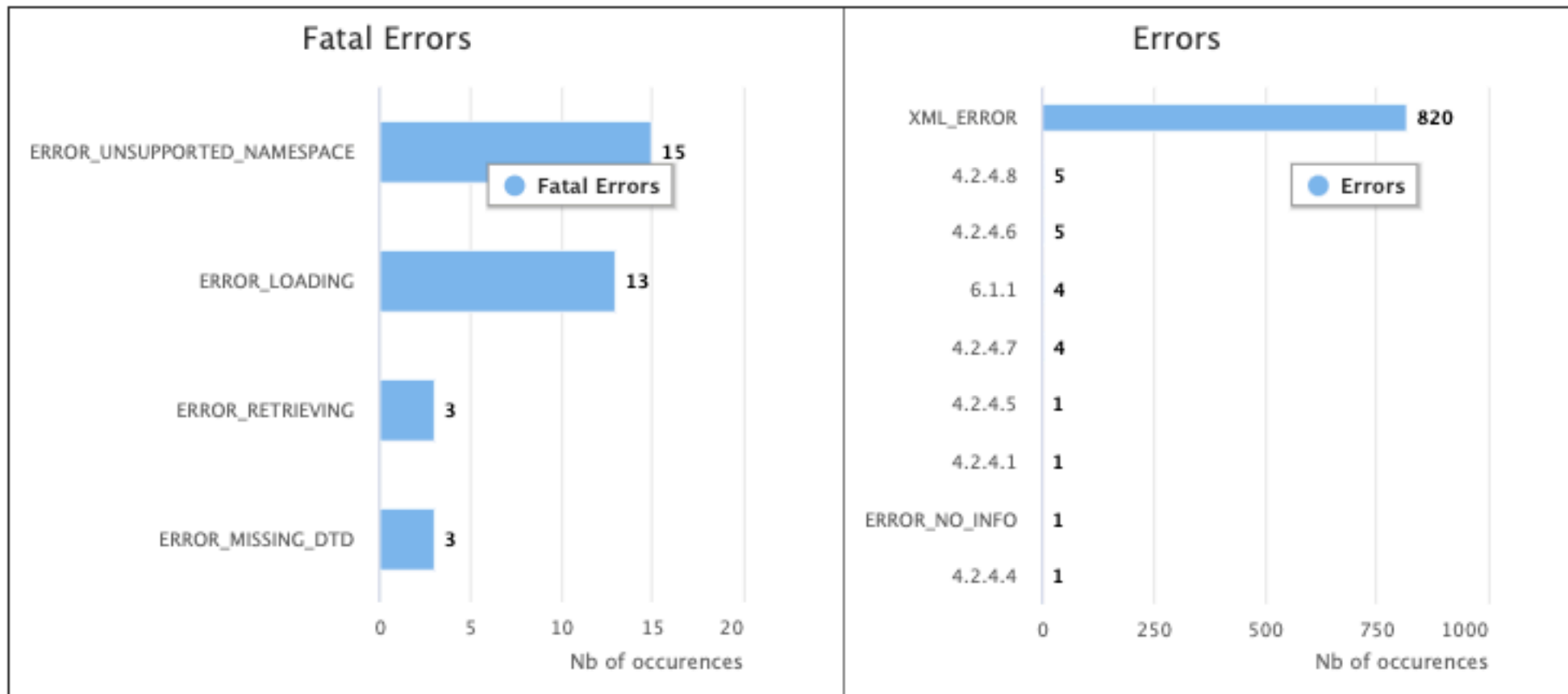


# SIA History

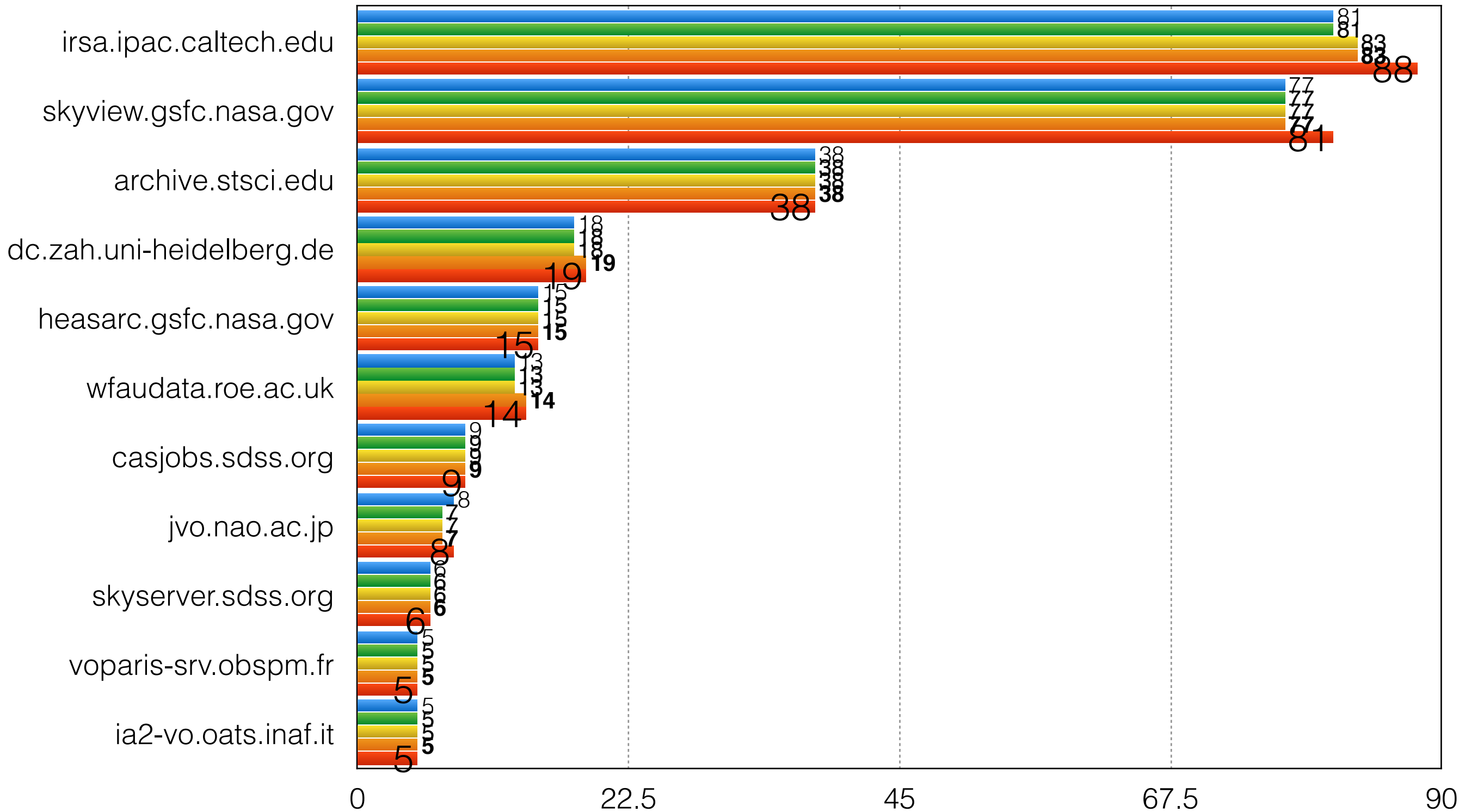
Not Respond.      Error      Valid



# 2021-05 SIA error frequencies

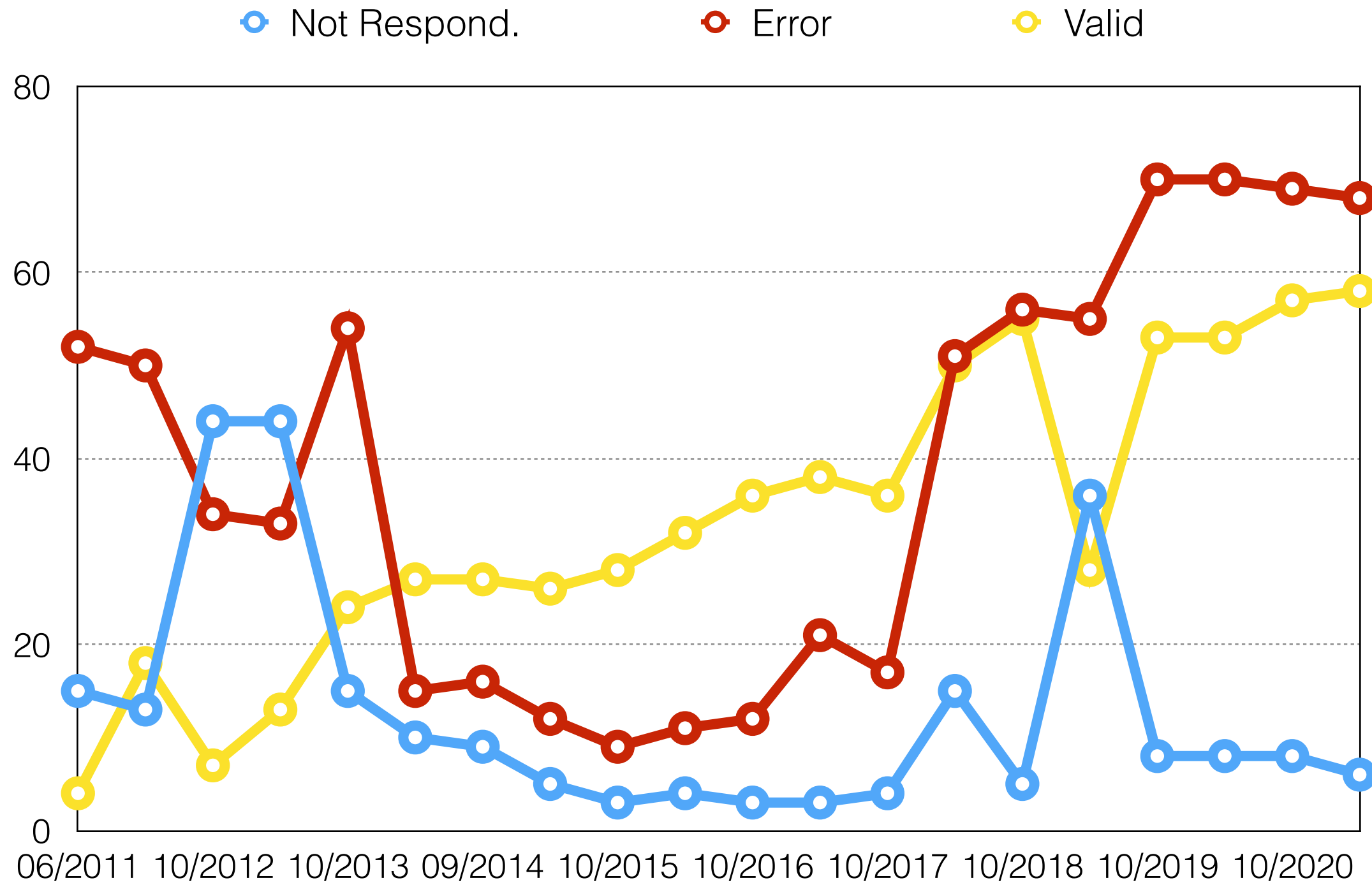


# TOP SIA Providers (more than 4 SIA services)

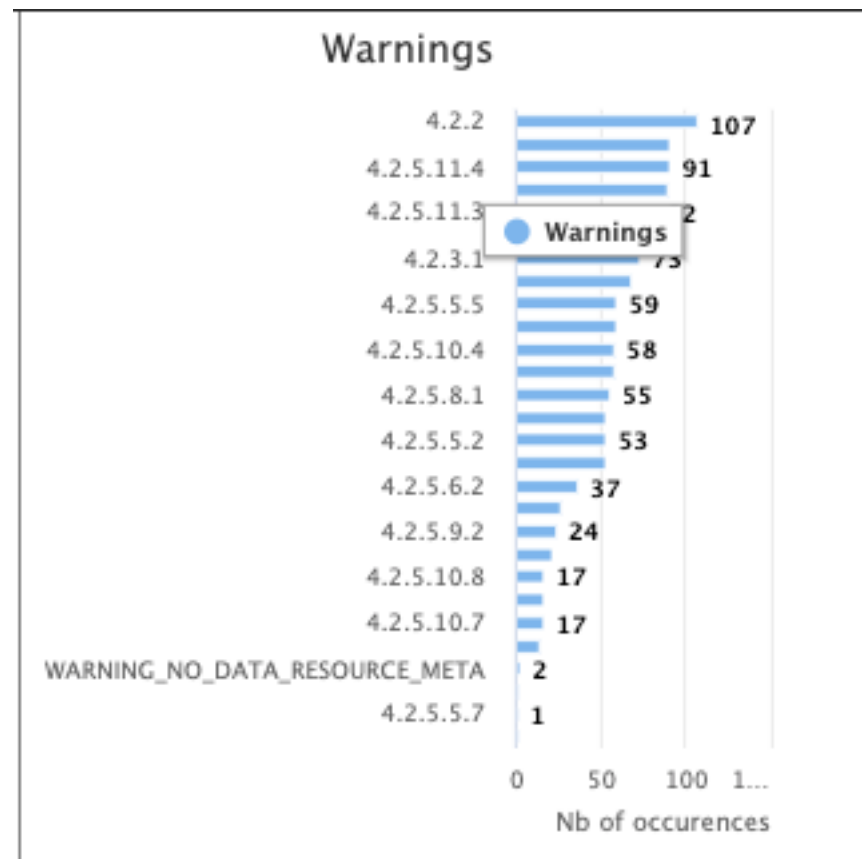
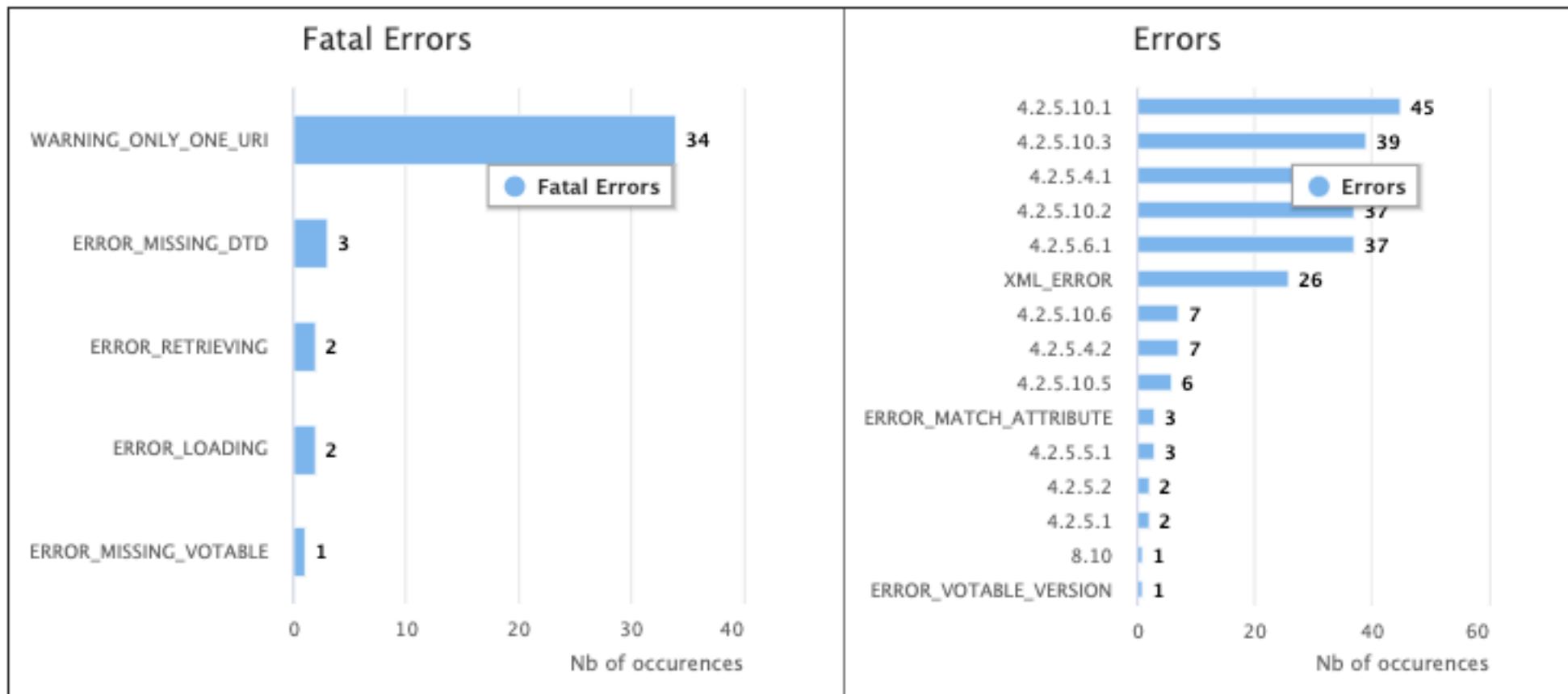




# SSA History



# 2021-05 SSA error frequencies

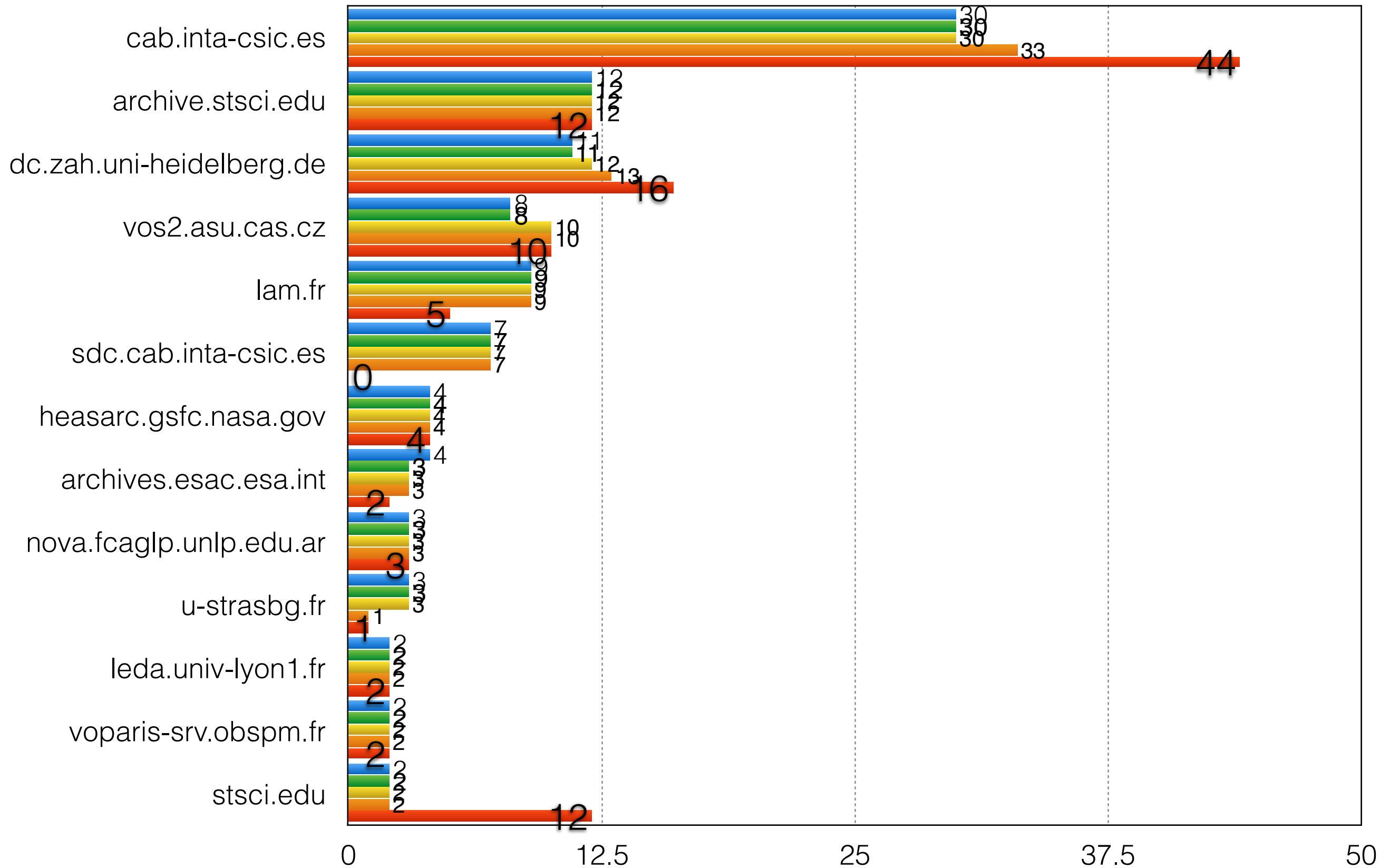


# TOP SSA Providers

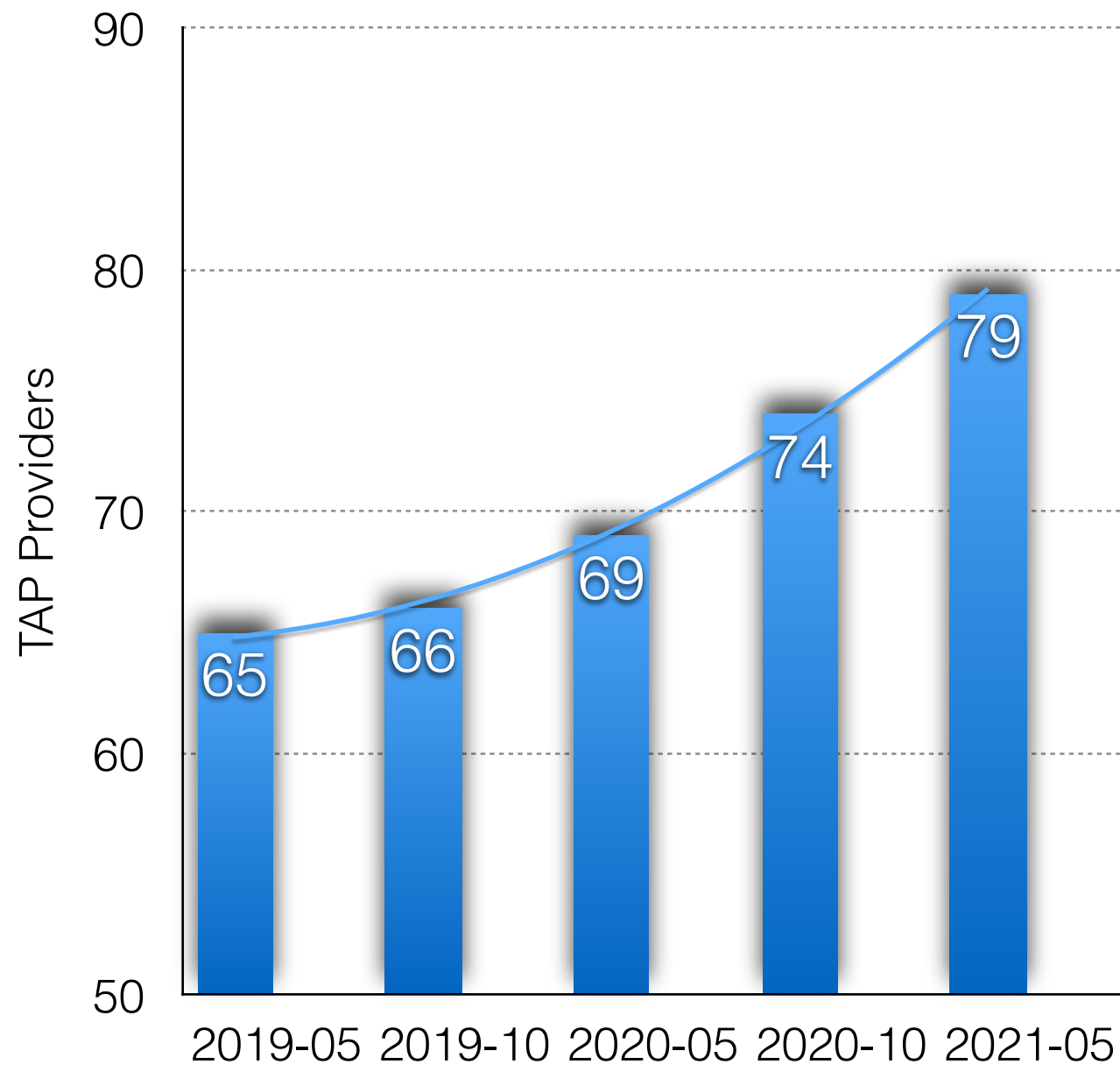
(> 1 SSA service)

Nb Services 2018-05  
Nb services 2019-05  
Nb Services 2021-05

Nb Services 2018-10  
Nb Services 2019-10



# TAP Providers evolution



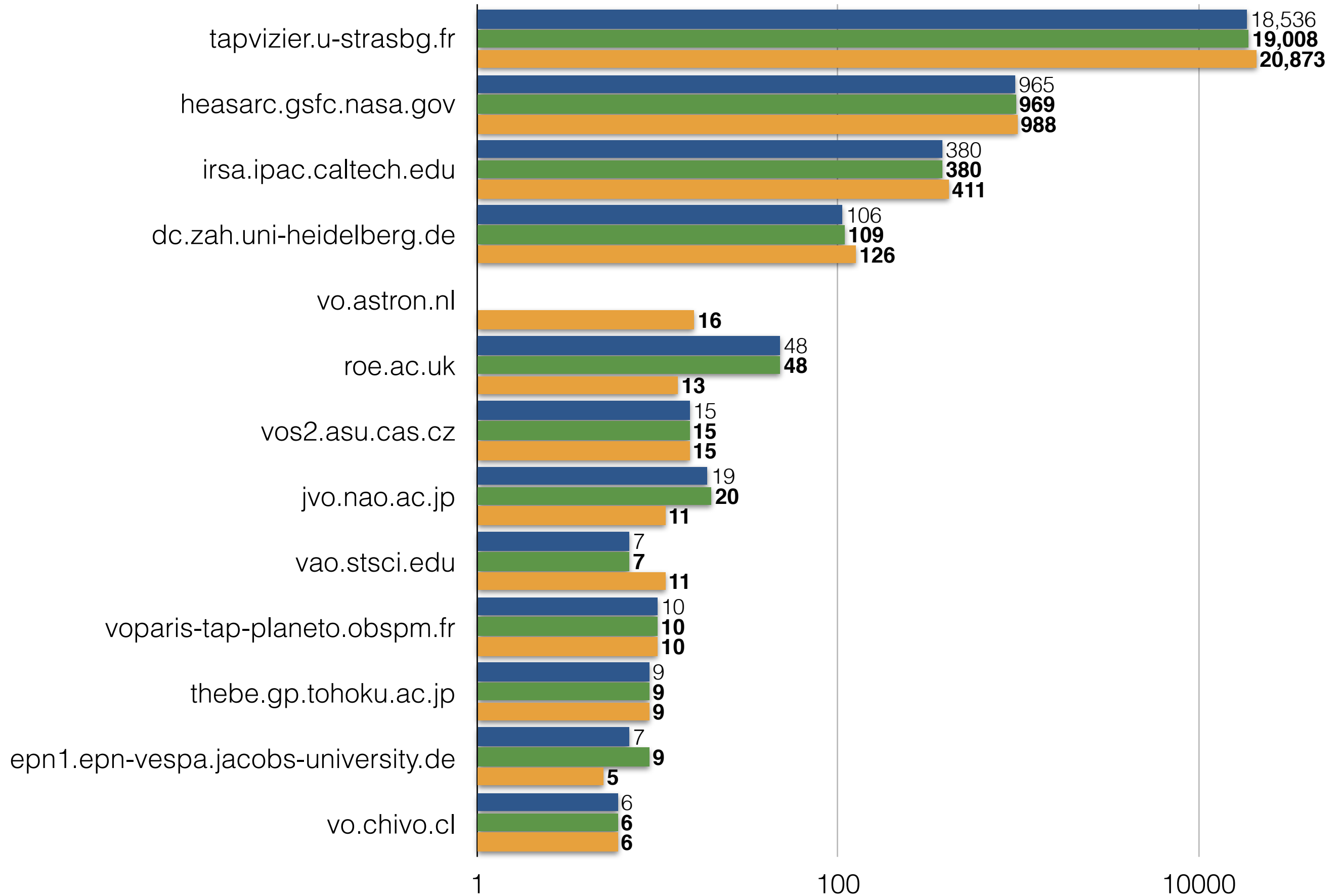
- TAP Monitoring started in 2019 using the Registry standardid `ivo://ivoa.net/std/tap*`
- Many services using same `access_url` → validating urls only once (per run). Should probably select only non-#aux one ?
- Nice uptake +22% in 2 years
- Using Mark Taylor's **taplint** for validation
- No grade/color affected to TAP services

# TOP TAP Providers

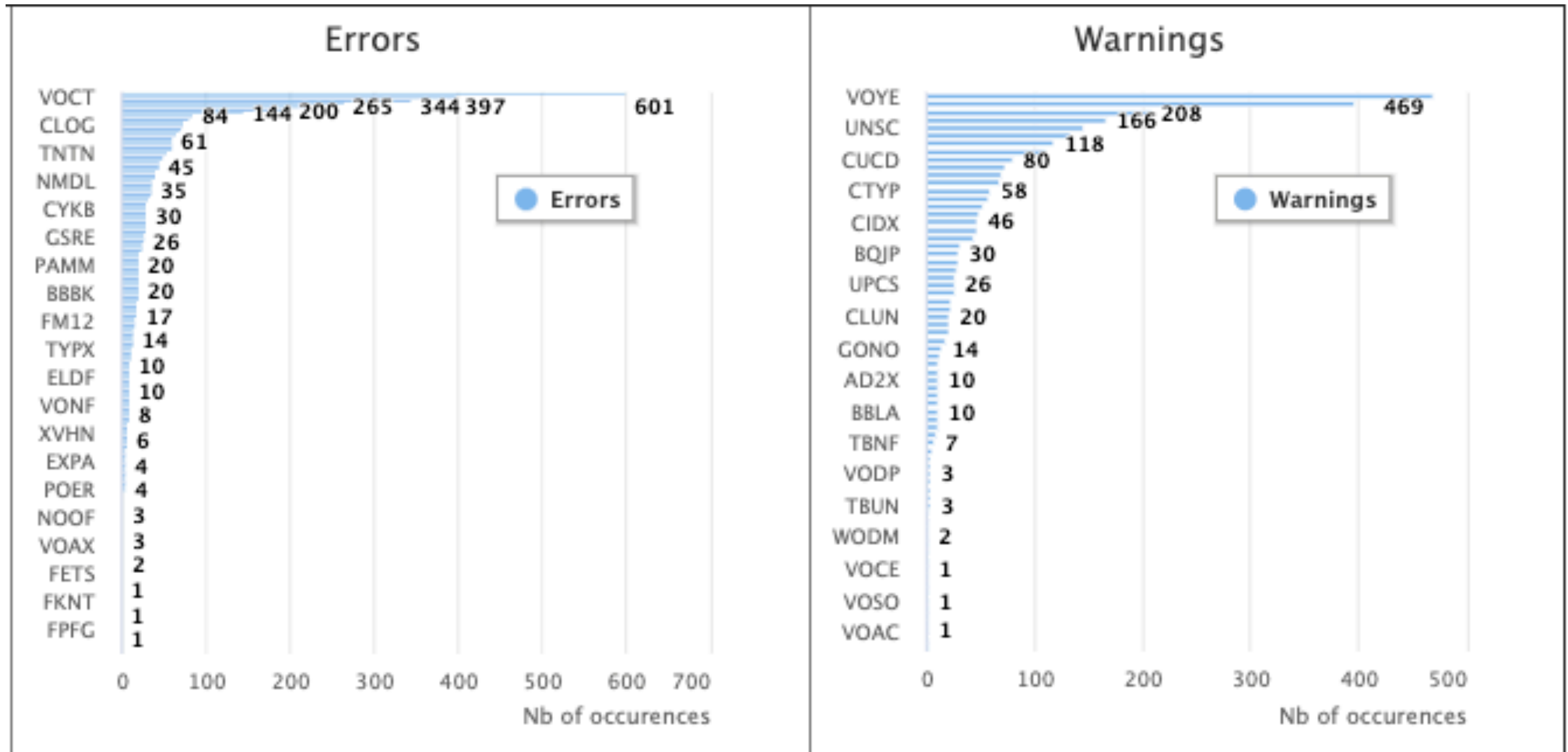
(having more than 5 service)

■ Nb Services 2019-05  
■ Nb Services 2021-05

■ Nb Services 2019-10



# 2021-05 TAP error frequencies



# HTTP API

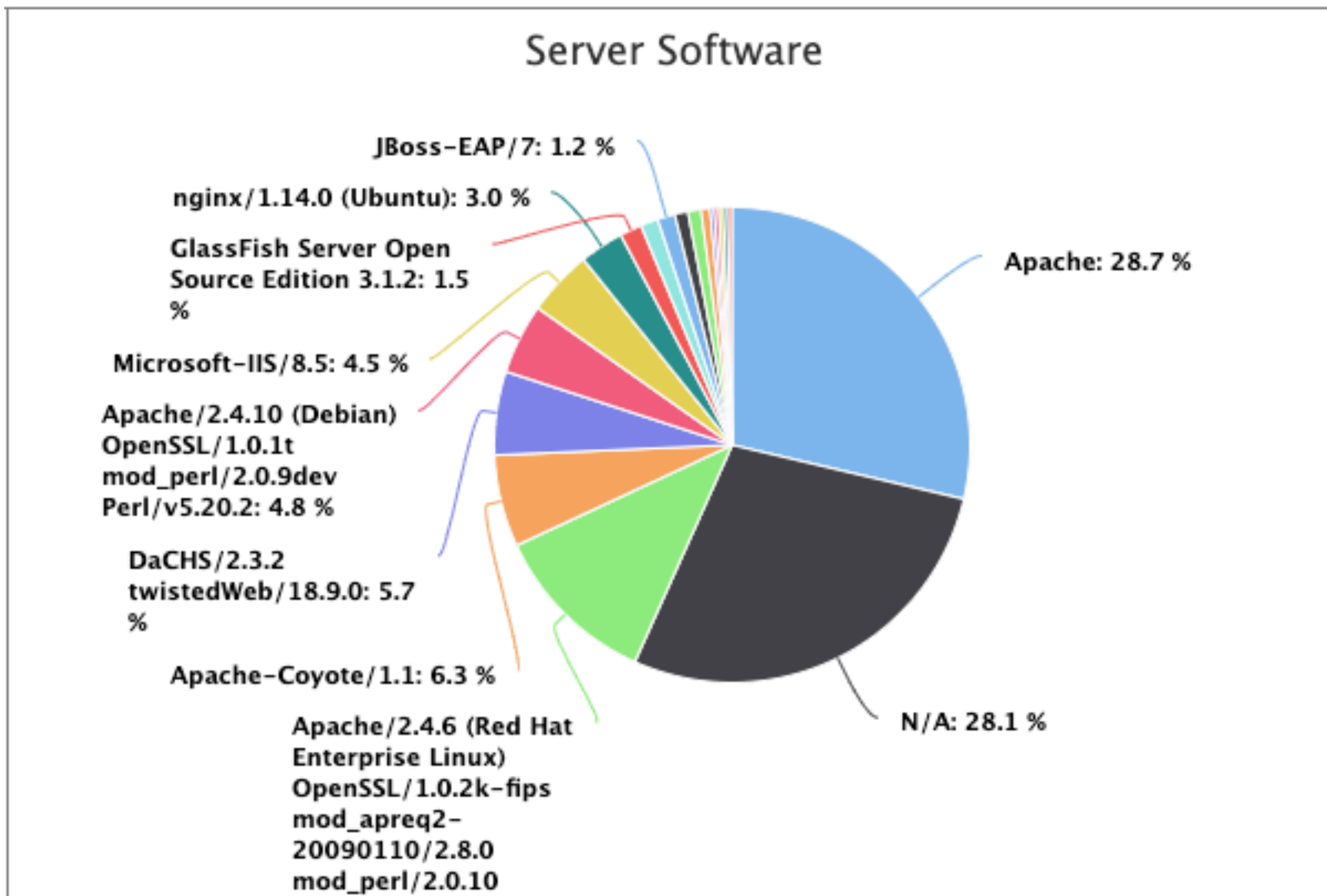
- <https://voparis-validation2.obspm.fr/validation/API> (that URL may change when I rewrite the service in Python to use new server)
- Retrieve validation results programmatically from our daily DBs
- Input and output in JSON formats
- Examples:

```
$ curl -d '{ "action": "query_services", "mode": "ivoid_pattern", "protocol": "ConeSearch", "ivoid_pattern": "%vopdc%" }' https://voparis-validation2.obspm.fr/validation/API/JSON
```

```
$ curl -d '{ "action": "query_services_errors", "mode": "multiple_ivoids", "protocol": "TAP", "ivoids": ["ivo://vopdc.obspm/luth/exoplanet/epn"] }' https://voparis-validation2.obspm.fr/validation/API/JSON
```

**New**

# Monitoring the Server Software Stacks



Server software reported by SIA services



# Conclusions

- **Reporting Web App** (demoed 2021-05-27 in Ops 1 session):

<https://voparis-validation-reports.obspm.fr/>

- NEW (2021): We report Server software and HTTP error codes to help debugging
- **API** also available to get results in JSON format  
<https://voparis-validation2.obspm.fr/validation/API>
- SIv2 validator: still stalled because of lack of resources and doc 😞 (but an increasing number of services - 29 - could benefit from it...) - volunteer ?
- Validators needs constant updates due to errata (ex COOSYS) and new usages (ex: redirections). They rely on the XSD files which must be correct
- Improving the validator generally improves the statistics → Comments and feedback always welcome !
- Operators/Providers: register your services early, so they get validated, then monitor the results often...