

GENERAL ACTIVITIES OF THE VSWG

LAURENT EYER
OBSERVATOIRE DE GENÈVE
WEDNESDAY 6TH OF JULY 2005

PLAN OF THE TALK

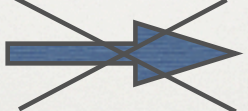
- VSWG Web-site (Activities)
- Activities since last meeting (Paris, Oct. 2005)
- Global activities around data processing
- Review the publications
- Comment on Livelink

VSWG WEB-SITE

- The activities are summarised and centralised on the Variable Star Working Group web-page:
 - <http://obswww.unige.ch/~eyer/VSWG>
- Please check this web-site and send comments

WEB-SITE CONTENT

-- List of members now ~ 45 (half are active), slight growth (several people from ISDC)

--Task list (dormant)  inactive

-- Information on Meetings

-- WG documents (next slide)

-- Tools

WORKING GROUP DOCUMENTS

- List of data mining methods (A.Naud, no changes)
- Variable star characteristics (we'll see later)
- Forecasts about Gaia variable stars (no changes)
- Compilation of surveys (Addition of surveys)
 - SuperMacho (LMC)
 - Future surveys: Pan-Starrs, COROT, Kepler
 - Comment: EROS, MACHO (Hipparcos 10% of variables, OGLE: 0.7%, MACHO 0.3-0.5%)
we need to complete the data for MACHO!
- Documents from VSWG meetings
- Emails

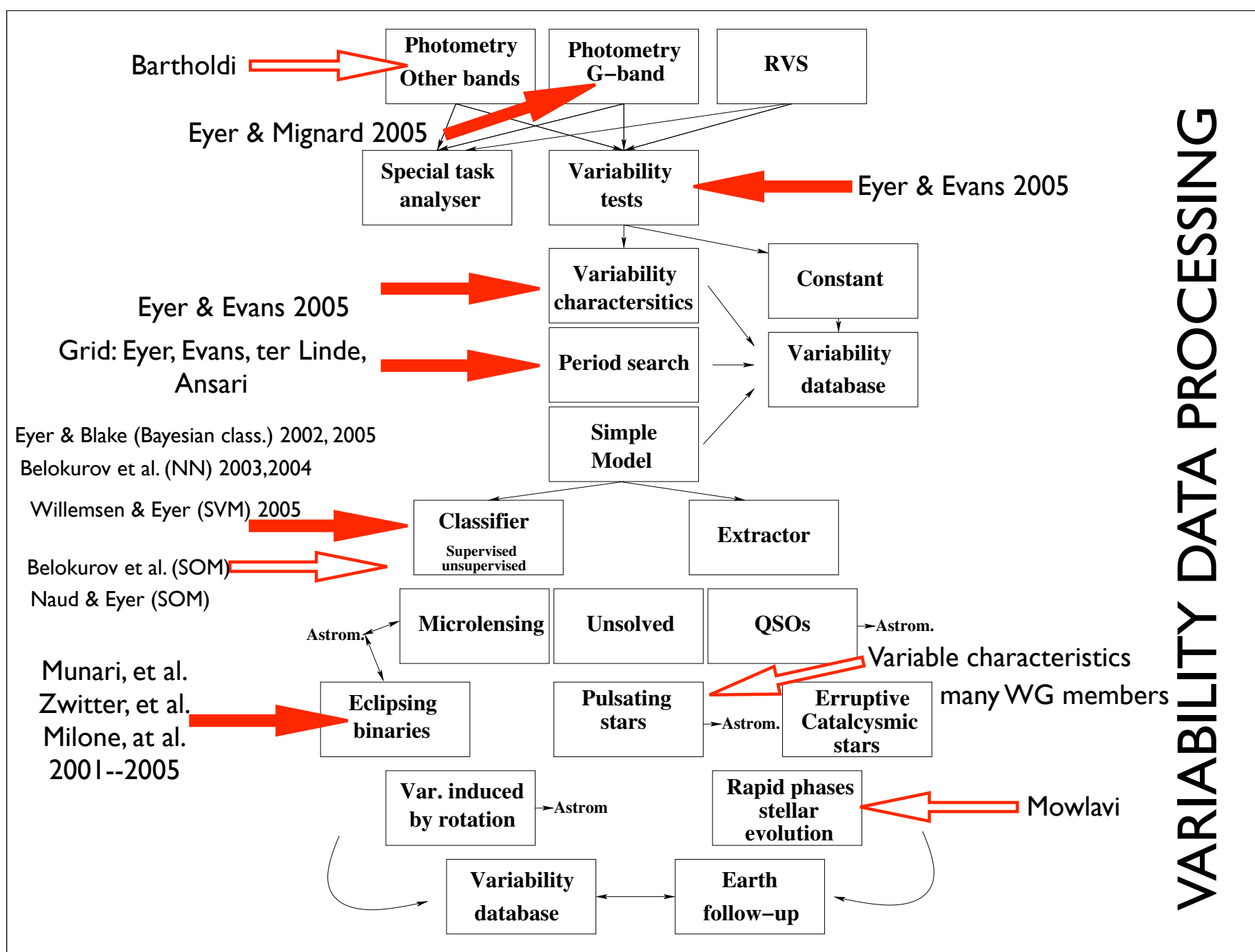
ACTIVITIES PAST ~6 MONTHS

- Algorithms for the detection of variability (D.Evans & Eyer)
- Grid: Two additional nodes (Cambridge, D.Evans, Geneva, C.Briner)
- Grid: Simulations of variable stars- 3 groups- for Grid (D.Evans)
- Grid: calculation (Mark ter Linde & Salim Ansari)
- SVM Classification (Willemssen & Eyer)
- Preparation of Simulations for period search benchmark (M. Beck)
- Tools (Famous-Mignard, other method: S.Paltani)
- Secular trends (N.Mowlavi)
- variable star characteristics
 - use for Galactic model
 - write a document from it! **Future:Thick publication or book**

DATA PROCESSING ACTIVITIES

- Software written
- Software tested
- Organisation of data processing

VARIABILITY DATA PROCESSING



LIST OF PUBLISHED DOCUMENTS ON ADS OR LIVELINK

- Variability in General:
 - Eyer (Gaia Paris Symposium, Oct. 2004, ESA-SP 576, 2005)
 - Eyer & Evans (VSWG-LE-001) on Livelink
 - Eyer (Rome: Stellar pulsation and Evolution June 2005, soon...)
- Simulation
 - Eyer, Robin, Evans, Reylé (VSWG-LE-002)
- Scanning low and period recovery:
 - Eyer & Mignard, now accepted in MNRAS
- Classification:
 - Eyer & Blake in MNRAS 358, p. 30, 2005
 - Willemsen & Eyer (VSWG-PW-001)
- Grid:
 - Eyer, Evans, ter Linde, Ansari (GAIA-GRID-001)

Demonstration of Gaia webpage and livelink

NEW TASKS

- Completion of MACHO data
- Description of tools ?
- Web-site improvement: data-processing
- From Grid testing: Corrections of software
- Continue work on variable star characteristics
- RVS, Cambridge September / 2005 meeting:
 - Action on Laurent and Michel Grenon (anybody else is welcome!)