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 - **Subject:** [alabobo2] cy40t1bf05 apl_arome
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Dear colleagues,

We would like to report a bug in `apl_arome.F90` in the call `compute_neb` (computation of high/medium/low/total cloud cover), i.e.

in `apl_arome` call to `compute_neb` "PCLFS"

```
CALL COMPUTE_NEB(KIDIA,KFDIA,KTDIA,KLON,KLEV,PAPHIM,PCLFS, &  
                & PCLCH,PCLCL,PCLCM,PCLCT)
```

should be replace by "ZNEB0"

```
CALL COMPUTE_NEB(KIDIA,KFDIA,KTDIA,KLON,KLEV,PAPHIM,ZNEB0, &  
                & PCLCH,PCLCL,PCLCM,PCLCT)
```

Why?

PCLFS is not protected against being 1 or 0 (in contrast to ZNEB0) -> in case of using "LRNUMX=.TRUE." cloudiness we get 0/0 cases in `compute_neb.F90` when adjacent levels have PCLFS=1.

e.g. in:

```
IF (LRNUMX.AND.(.NOT. LACPANMX).AND.JLEV > KTDIA) THEN  
    ZB1=(1.0_JPRB-MAX(PCLFS(JLON,JLEV),PCLFS(JLON,JLEV-1)))/(1.0_JPRB &  
        & -PCLFS(JLON,JLEV-1))
```

Best regards
Christoph & Clemens

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- **[alabobo2] cy40t1bf05 apl_arome**, Wittmann Christoph, 02/03/2016
 - **[alabobo2] SV: cy40t1bf05 apl_arome**, Andrae Ulf, 02/03/2016
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