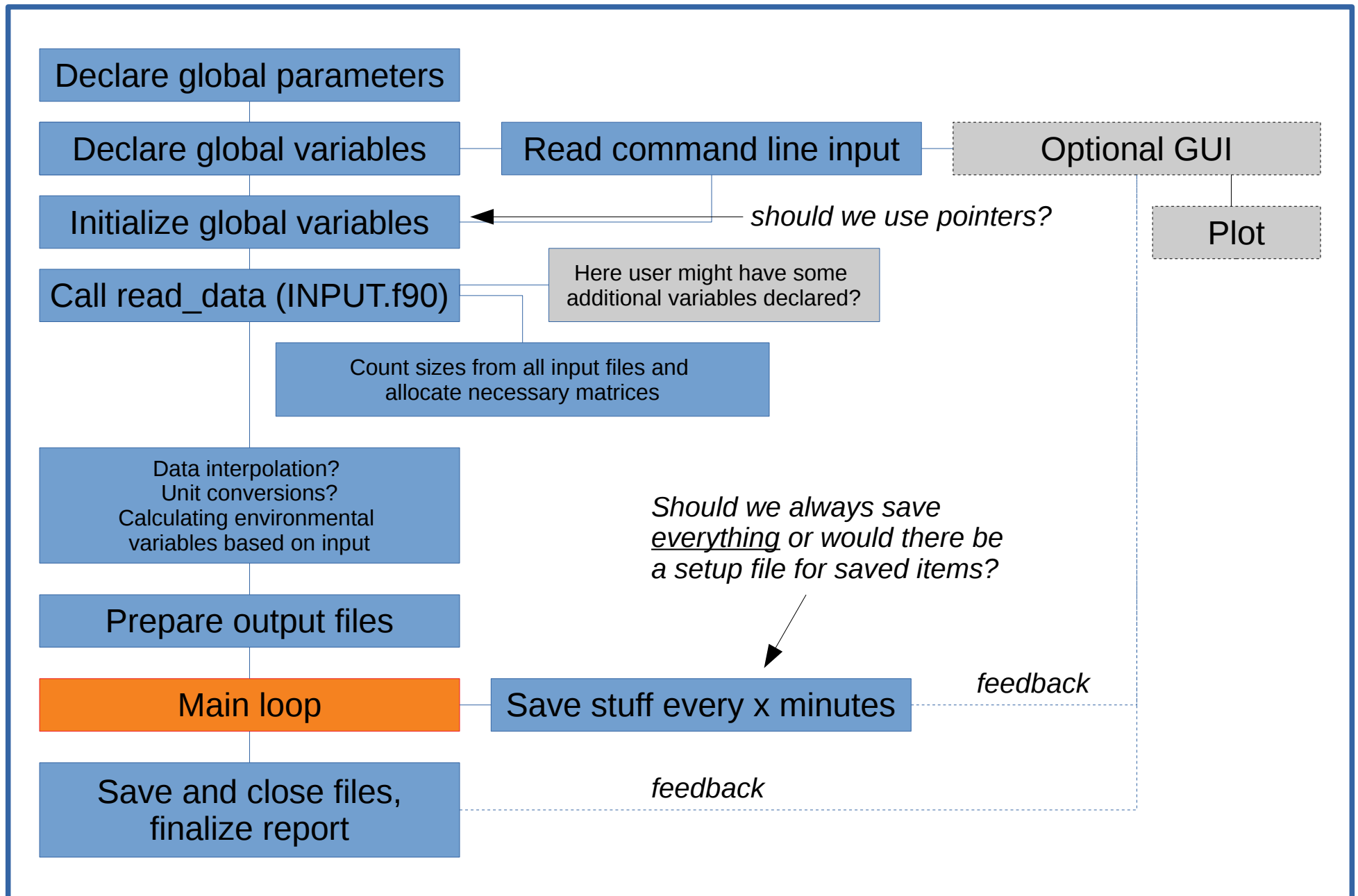


MAIN STRUCTURE



Main loop

while time < runtime

Interpolate current concentrations etc

Chemistry (KPP directly interfaced)

alternative
approaches

Particle formation ACDC

Particle dynamics

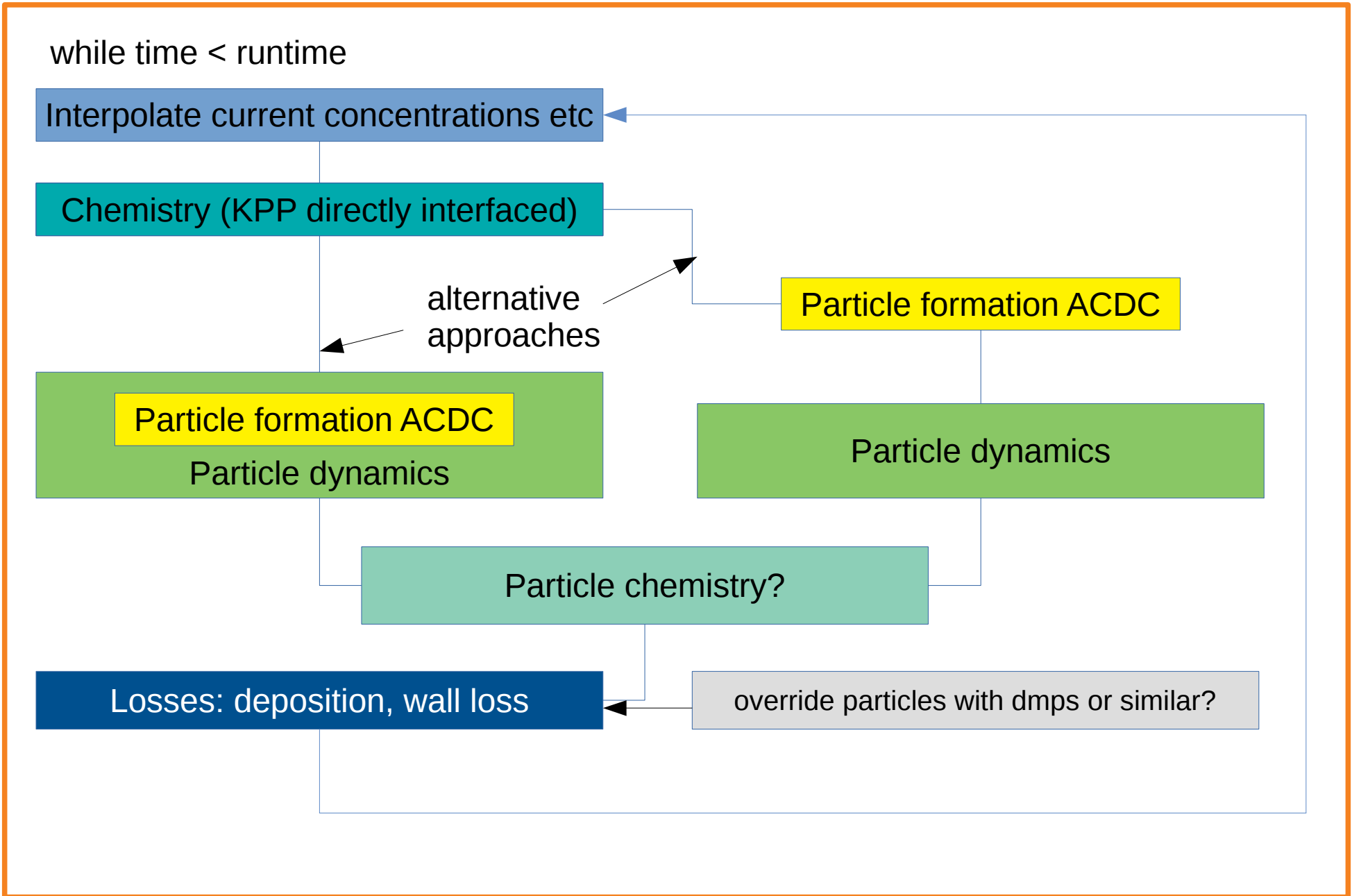
Particle formation ACDC

Particle dynamics

Particle chemistry?

Losses: deposition, wall loss

override particles with dmps or similar?



Style suggestions

- Use of CAPS (for legibility SOME caps would be good, for example in function, loop and variable declarations)
- no GOTOs
- every function and subroutine must be documented in comment right from the start. Also it would be good to add where it is called?
- tabs/spaces. I suggest short tab length (in my setting, when I hit tab, Atom creates two spaces). Inset all loops, ifs, cases, subroutine.
- possibly even name long loops and ifs? (like in:

```
wonky: do ioi=1,2
      cycle
    end do wonky
```

) This might help reading the code?
- avoid using only 1 or 2 characters in variable names, unless it is something that is really common and clear what it contains. All flags etc should be named so that they are self explanatory

Supermodel

Name suggestions:

- AACD – Atmospheric and Aerosol Chemistry and Dynamics
- ACD – Atmospheric and Aerosol Chemistry and Dynamics
- APCD - Air Parcel Chemistry and Dynamics
- APCAD - Air Parcel Chemistry and Aerosol Dynamics
- APDC - Air Parcel Dynamics and Chemistry
- APDaC - Air Parcel Dynamics and Chemistry

or simply

- PCAD - Parcel Chemistry and Aerosol Dynamics
- PCD - Parcel Chemistry and Dynamics

There is no Model there but isn't it always clear from the context?