## Regression test

Test run started 2025-08-26T23:54:05Z

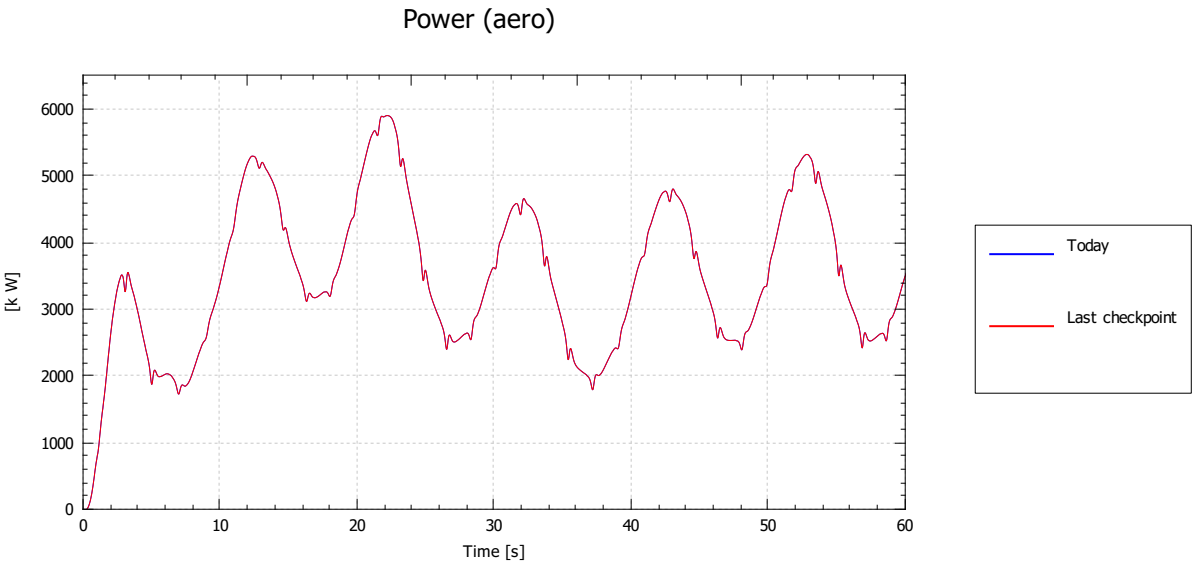
Ashes version: 3.32.0

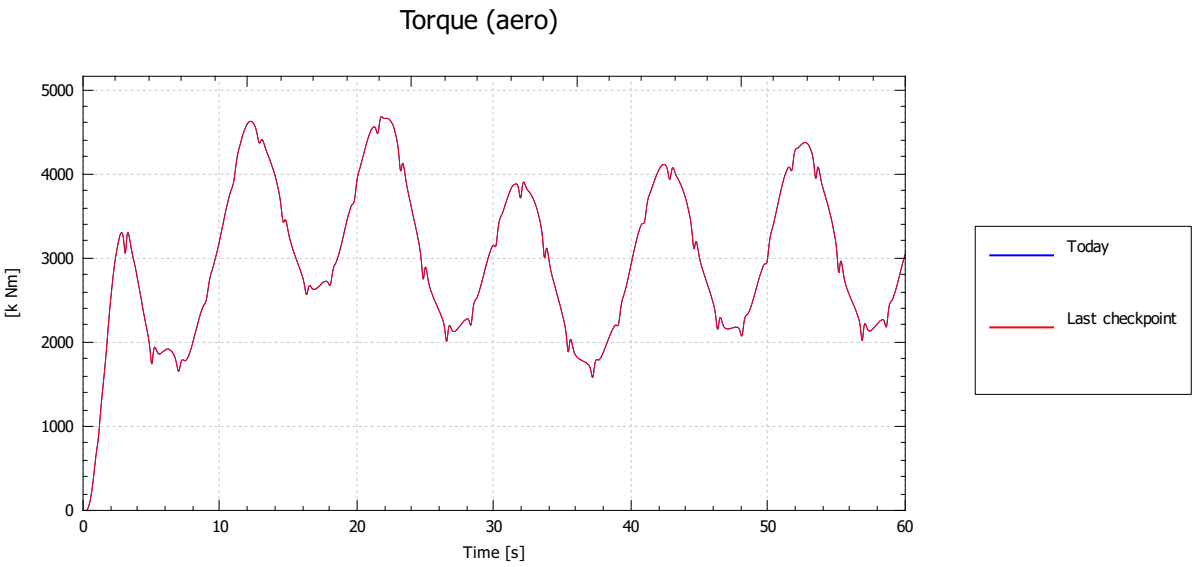
| **Default floater** | | | |
|---|---|---|---|
| Load case set 1 | | | |
| Load case | Time series | Error score | |
| Load case 1 | Power (aero) | 0.000000 | PASS |
| | Torque (aero) | 0.000000 | PASS |
| | Thrust (aero) | 0.000000 | PASS |
| | RPM | 0.000000 | PASS |
| | TSR | 0.000000 | PASS |
| | Representative demanded pitch angle | 0.000000 | PASS |
| | Power coef. (CP) | 0.000000 | PASS |
| | Thrust coef. (CT) | 0.000000 | PASS |
| | Torque coef. (CQ) | 0.000000 | PASS |
| | Tip speed | 0.000000 | PASS |
| | 1P (one revolution) | 0.000000 | PASS |
| | nP (blade passing) | 0.000000 | PASS |
| | Azimuth angle | 0.000000 | PASS |
| | Rotation per timestep | 0.000000 | PASS |
| | Wind speed at hub, magnitude | 0.000000 | PASS |
| | Wind angle at hub | 0.000000 | PASS |
| | Yaw angle relative to forward | 0.000000 | PASS |
| | Yaw angle to reference direction | 0.000000 | PASS |
| | Yaw error | 0.000000 | PASS |
| | Torque about yaw axis | 0.000000 | PASS |
| | Power (electrical) | 0.000000 | PASS |
| | Torque | 0.000000 | PASS |
| | Torque on main shaft | 0.000000 | PASS |
| | Torque diff. on main shaft | 0.000000 | PASS |
| | RPM | 0.000000 | PASS |
| | Filtered RPM | 0.000000 | PASS |
| | Electricity production | 0.000000 | PASS |
| | Region | 0.000000 | PASS |
| | Demanded collective pitch angle | 0.000000 | PASS |
| | Cumulative demanded collective pitch angle | 0.000000 | PASS |
| | Demanded collective pitch angle rate | 0.000000 | PASS |
| | Set point | 0.000000 | PASS |
| | RPM error | 0.000000 | PASS |

| | | | |
|---|---|---|---|
| | P term | 0.000000 | PASS |
| | I term | 0.000000 | PASS |
| | D term | 0.000000 | PASS |
| | Gain scheduling factor | 0.000000 | PASS |
| | Root force (magnitude) | 0.000000 | PASS |
| | Root moment (magnitude) | 0.000000 | PASS |
| | Root moment (out-of-plane) | 0.000000 | PASS |
| | Root moment (in-plane) | 0.000000 | PASS |
| | Root moment about shaft | 0.000000 | PASS |
| | Pitch angle | 0.000000 | PASS |
| | Tip deflection (out-of-plane) | 0.000000 | PASS |
| | Tip deflection (in-plane) | 0.000000 | PASS |
| | Root torque | 0.000000 | PASS |
| | Position (x) | 0.000000 | PASS |
| | Position (y) | 0.000000 | PASS |
| | Position (z) | 0.000000 | PASS |
| | Displacement (u) | 0.000000 | PASS |
| | Displacement (v) | 0.000000 | PASS |
| | Displacement (w) | 0.000000 | PASS |
| | Displacement magnitude | 0.000000 | PASS |
| | Speed | 0.000000 | PASS |
| | Acceleration, magnitude | 0.000000 | PASS |
| | Rotational displacement (ru) | 0.000000 | PASS |
| | Rotational displacement (rv) | 0.000000 | PASS |
| | Rotational displacement (rw) | 0.000000 | PASS |
| | Rotational displacement magnitude | 0.000000 | PASS |
| | Rotational speed | 0.000000 | PASS |
| | Rotational acceleration mag | 0.000000 | PASS |
| | Displacement period | 0.000000 | PASS |
| | Displacement logarithmic decrement | 0.000000 | PASS |
| | Displacement damping ratio | 0.000000 | PASS |
| | Surface elevation (origin) | 0.000000 | PASS |
| | Dynamic pressure (origin) | 0.000000 | PASS |
| | Surge (forward) | 0.000000 | PASS |
| | Sway (sideways) | 0.000000 | PASS |
| | Heave (up) | 0.000000 | PASS |
| | Roll (about surge axis) | 0.000000 | PASS |
| | Pitch (about sway axis) | 0.000000 | PASS |
| | Yaw (about heave (vertical) axis) | 0.000000 | PASS |
| | Draft | 0.000000 | PASS |
| | Yaw error (relative to wind angle) | 0.000000 | PASS |

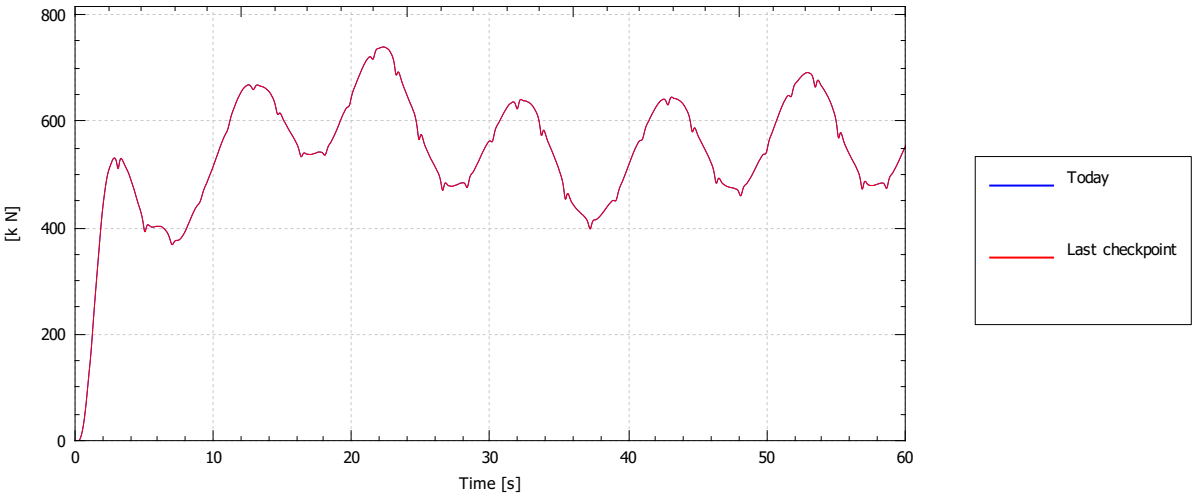
**Load case: Load case 1**

**Rotor**

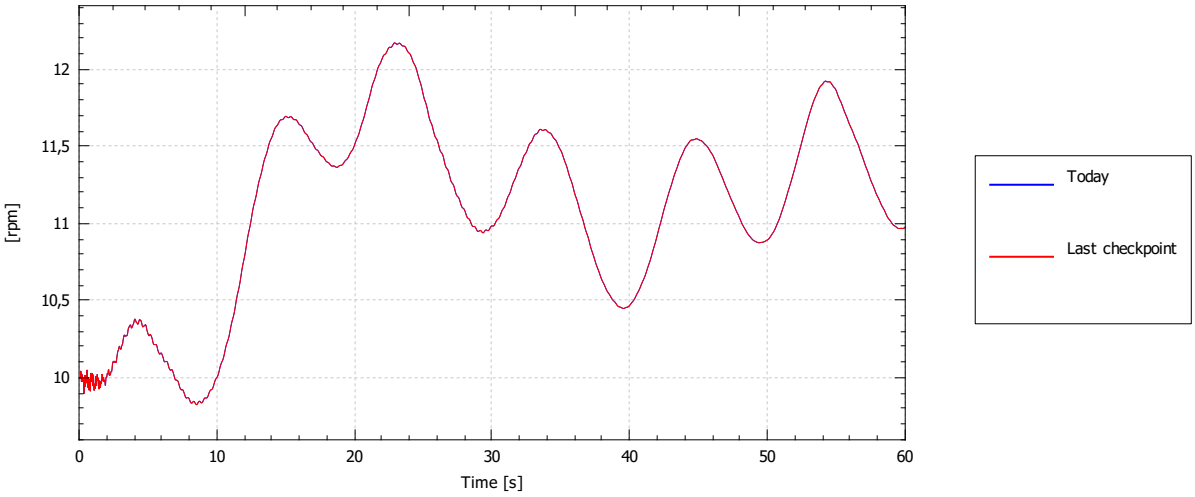

Power (aero)
[k W]
6000
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60
Time [s]
Today
Last checkpoint


Torque (aero)
[k Nm]
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60
Time [s]
Today
Last checkpoint

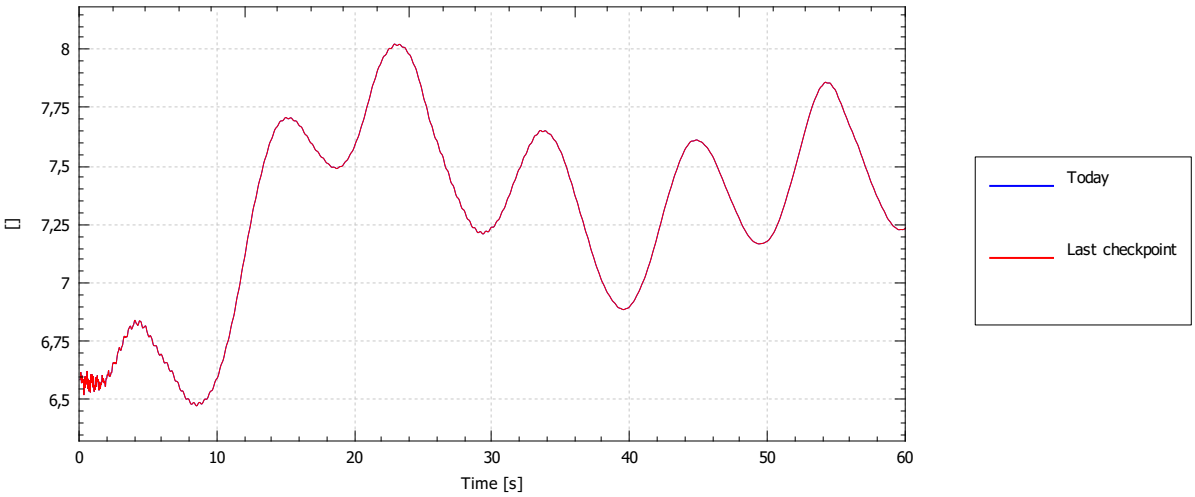
## Thrust (aero)



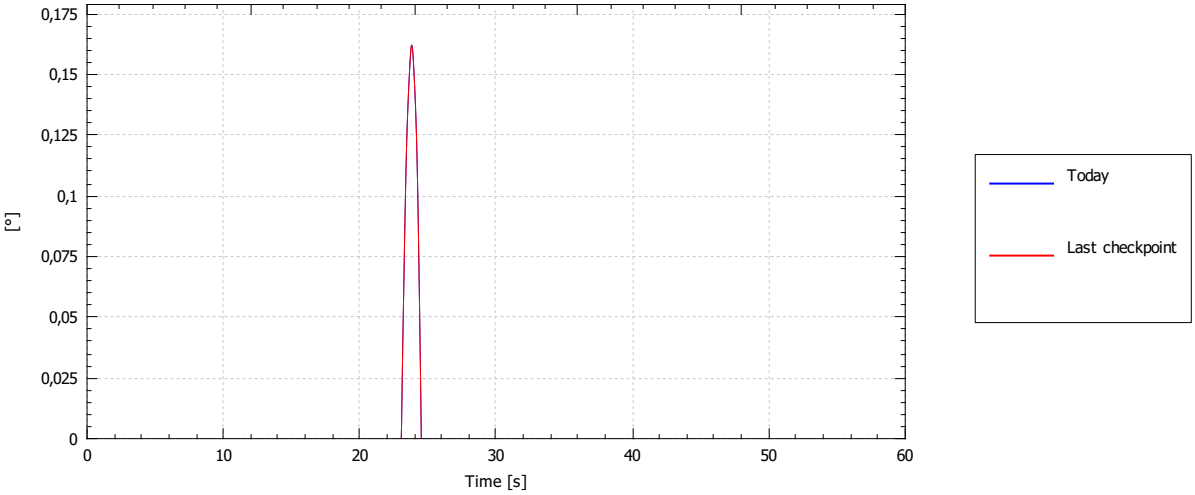

## RPM



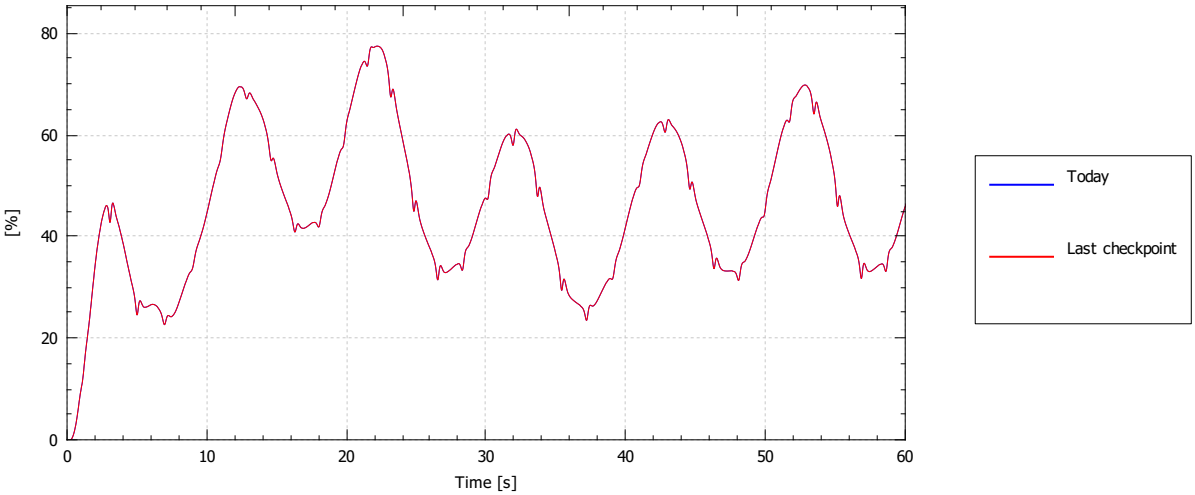

## TSR



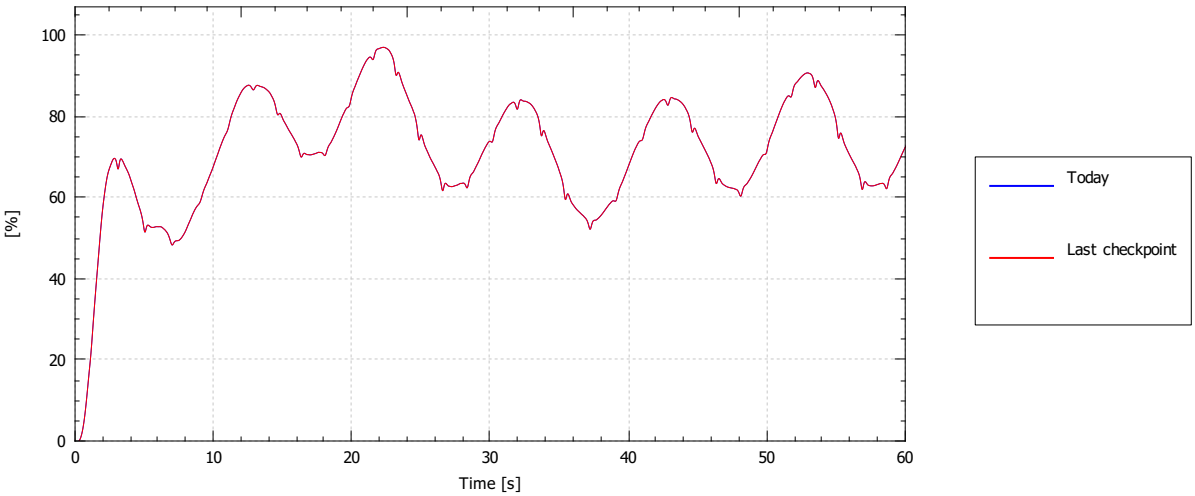
Representative demanded pitch angle



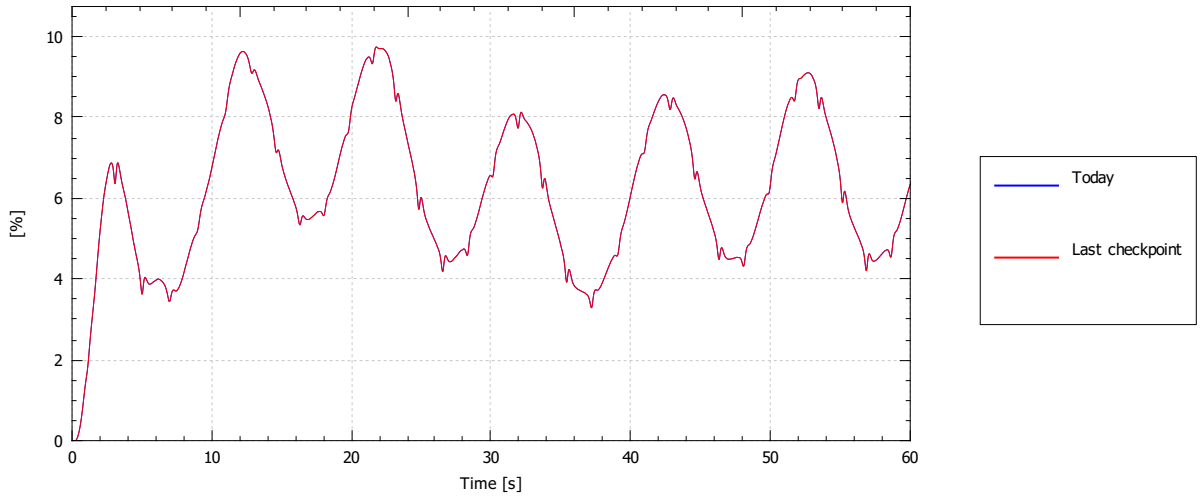

Power coef. (CP)



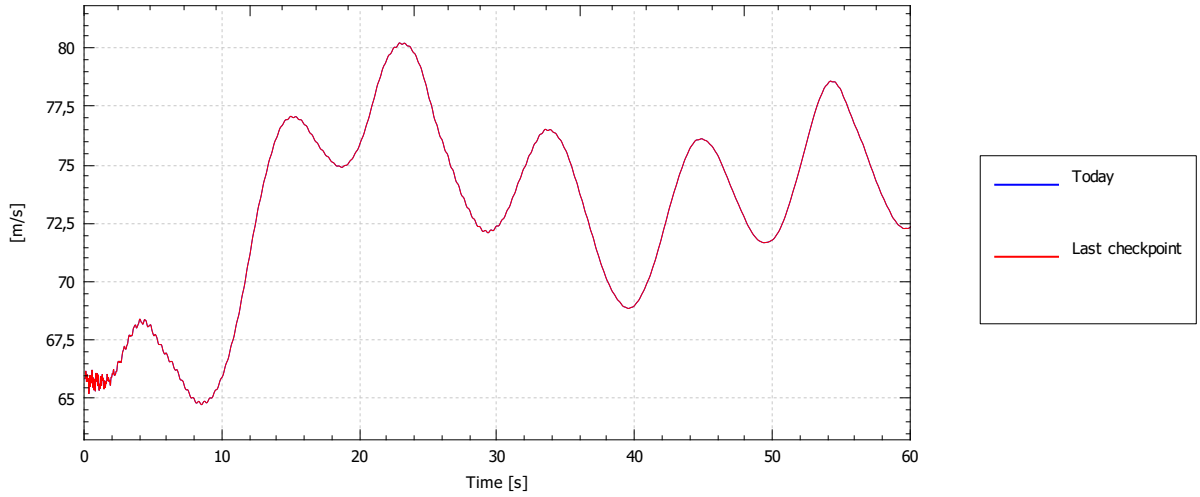

Thrust coef. (CT)



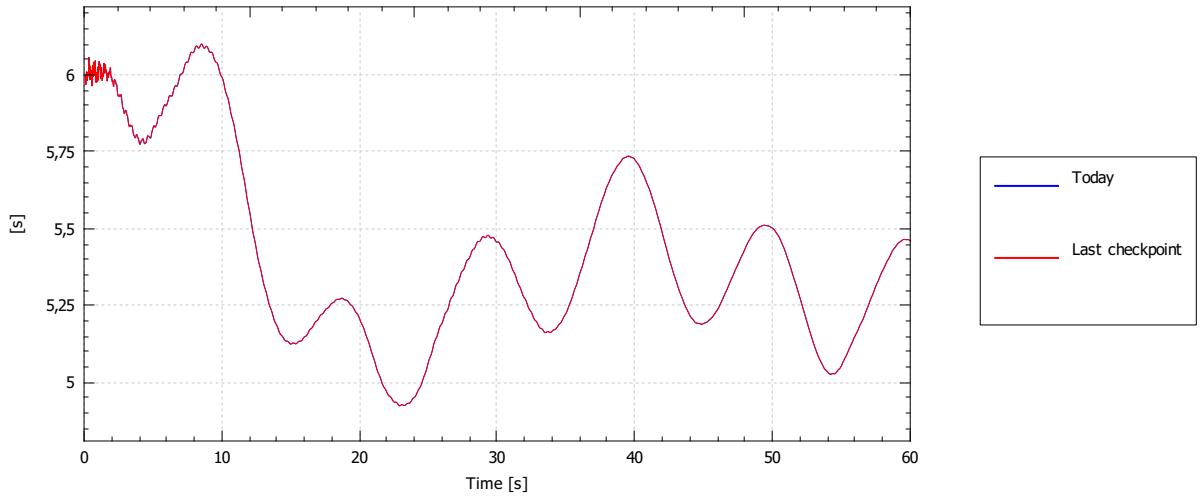
## Torque coef. (CQ)



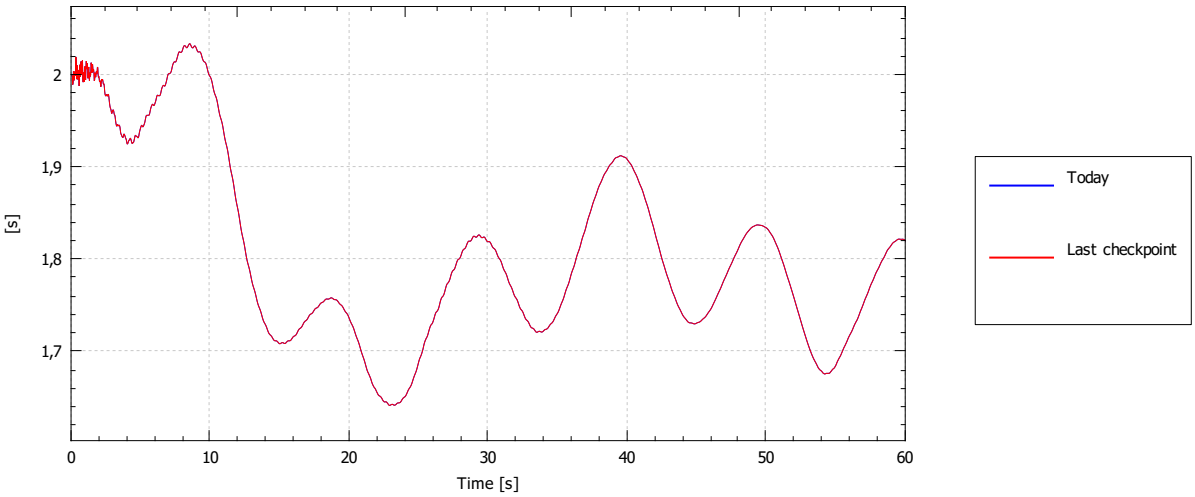

## Tip speed



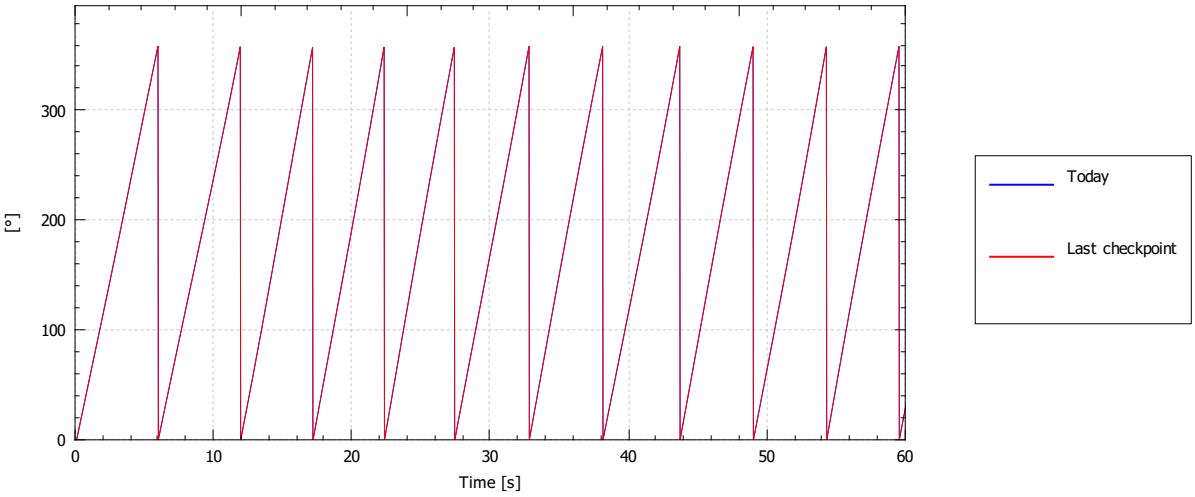

## 1P (one revolution)



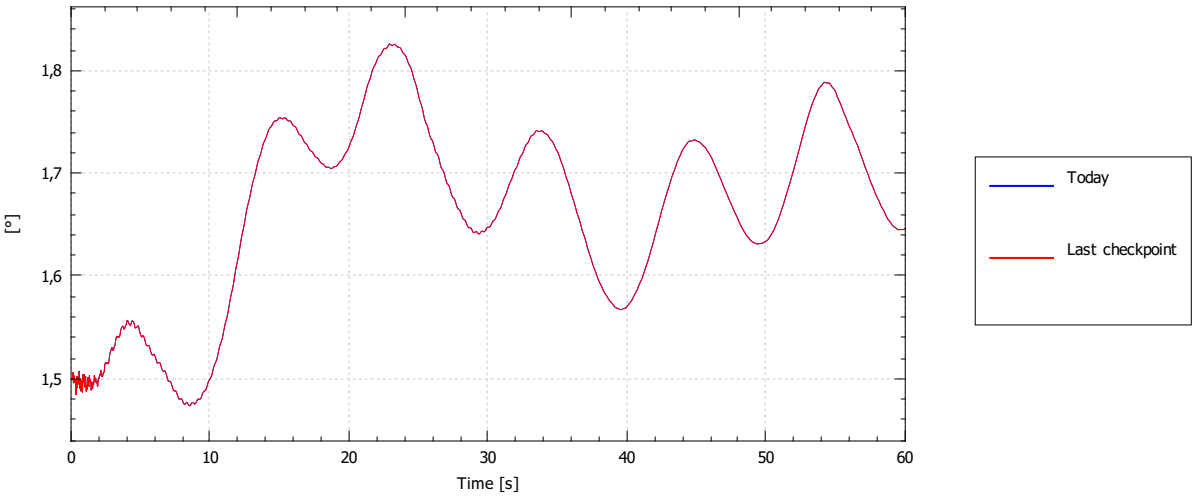
nP (blade passing)



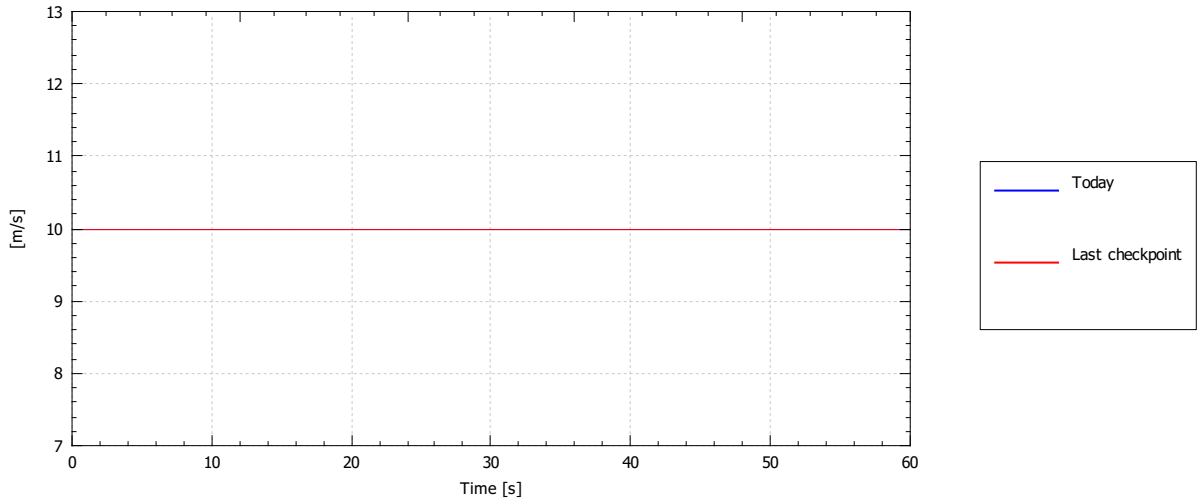

Azimuth angle



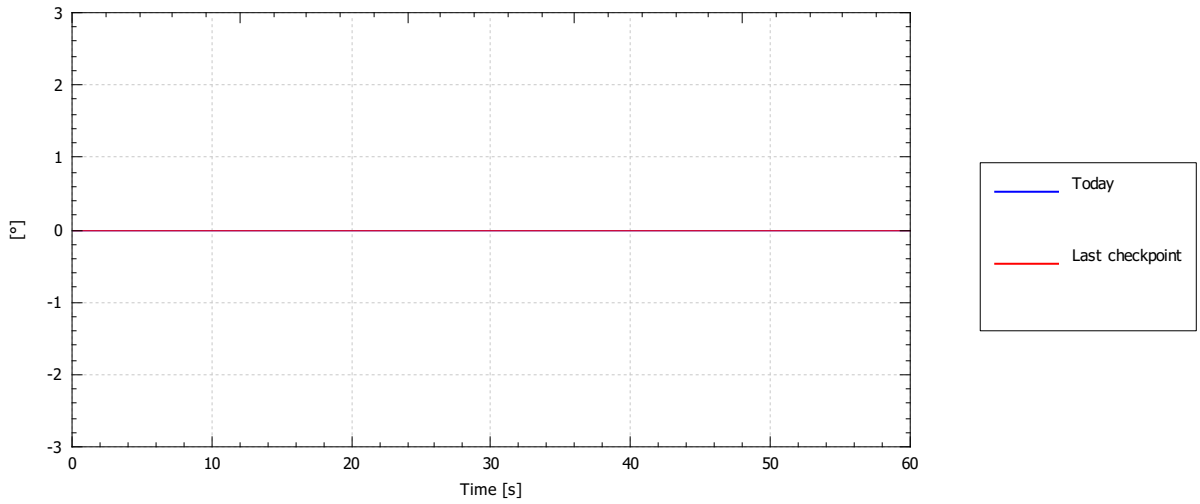

Rotation per timestep



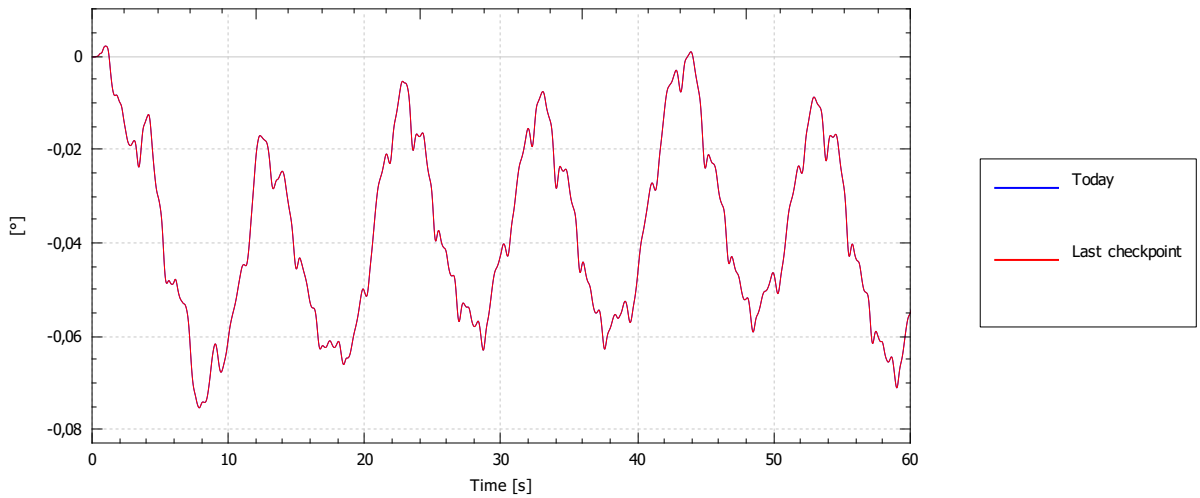
## Wind speed at hub, magnitude



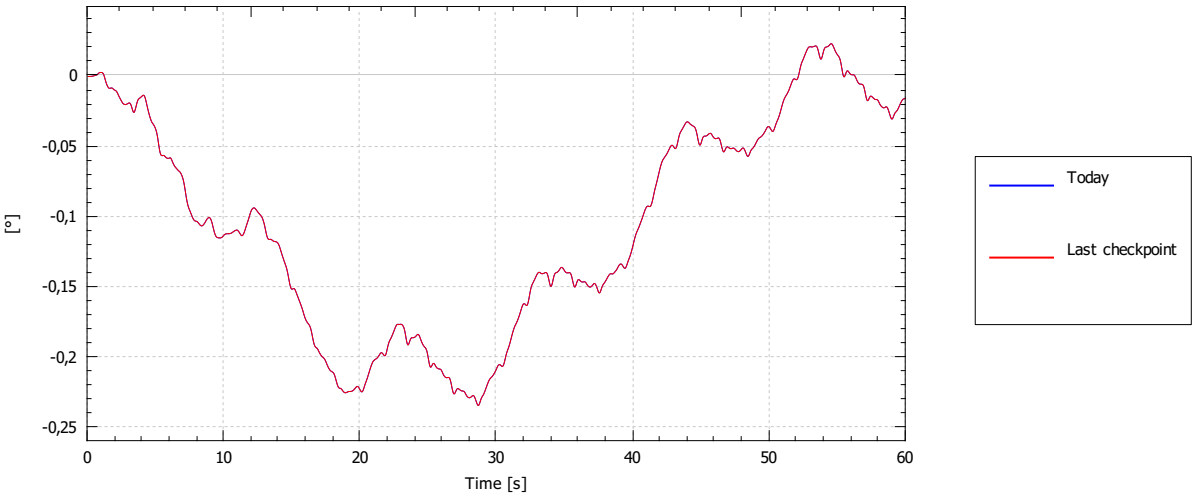

## Wind angle at hub



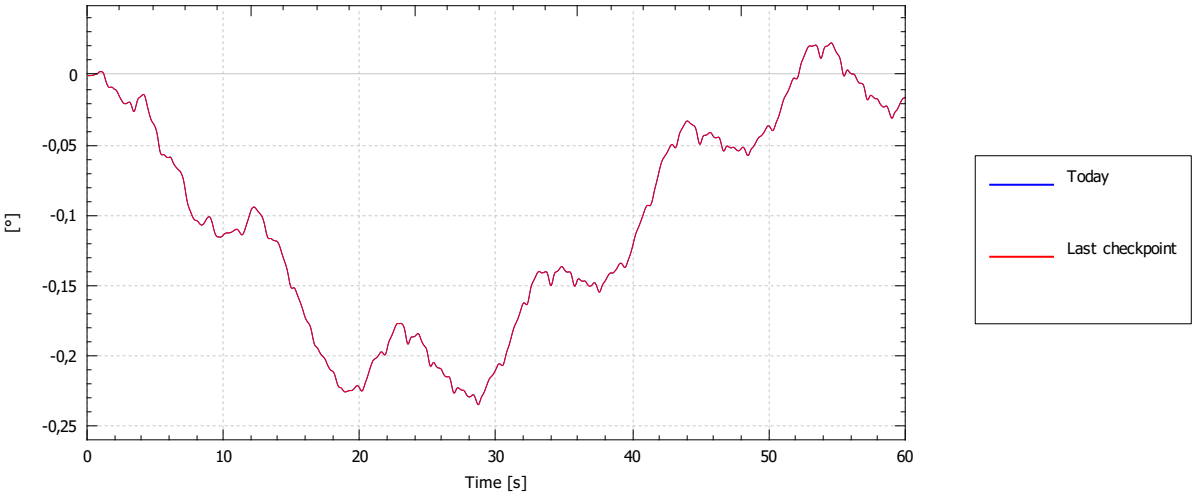

## Yaw angle relative to forward



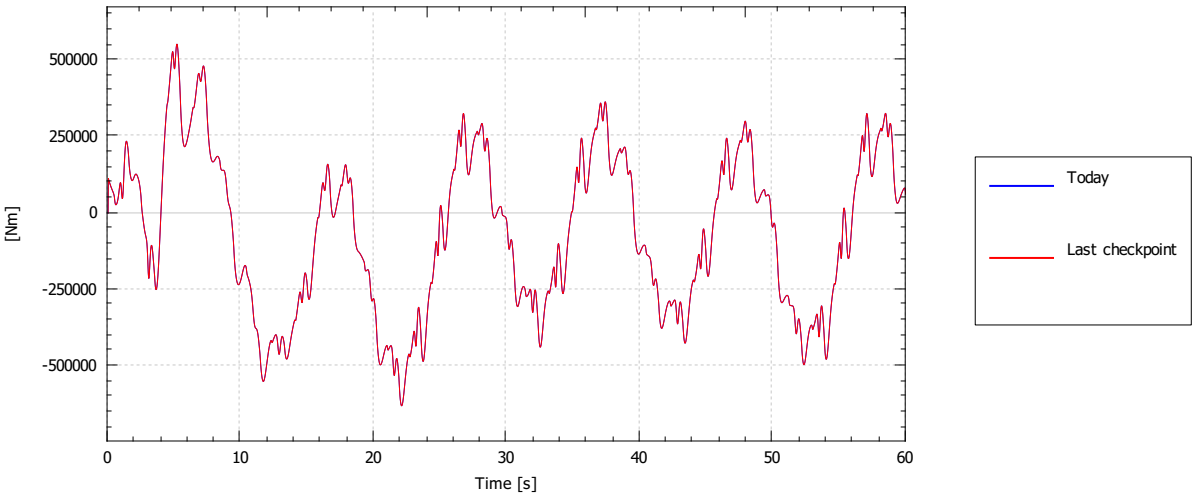
Yaw angle to reference direction




Yaw error

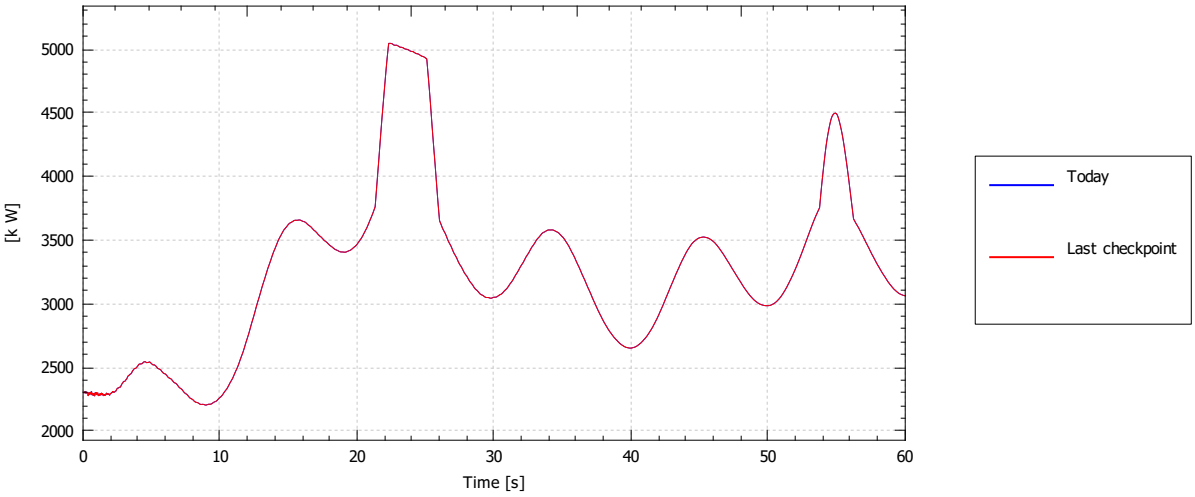



Torque about yaw axis

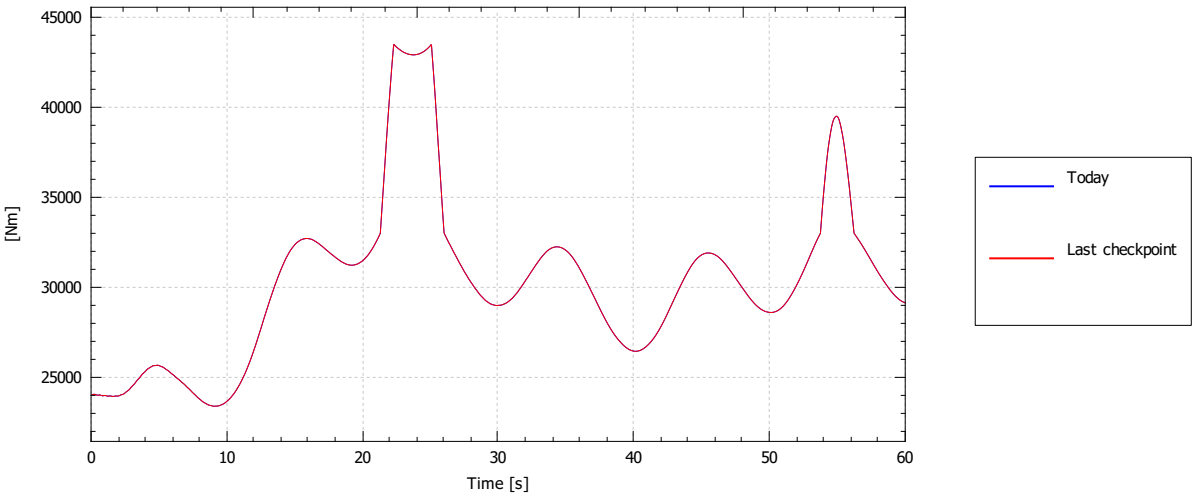


**Generator**

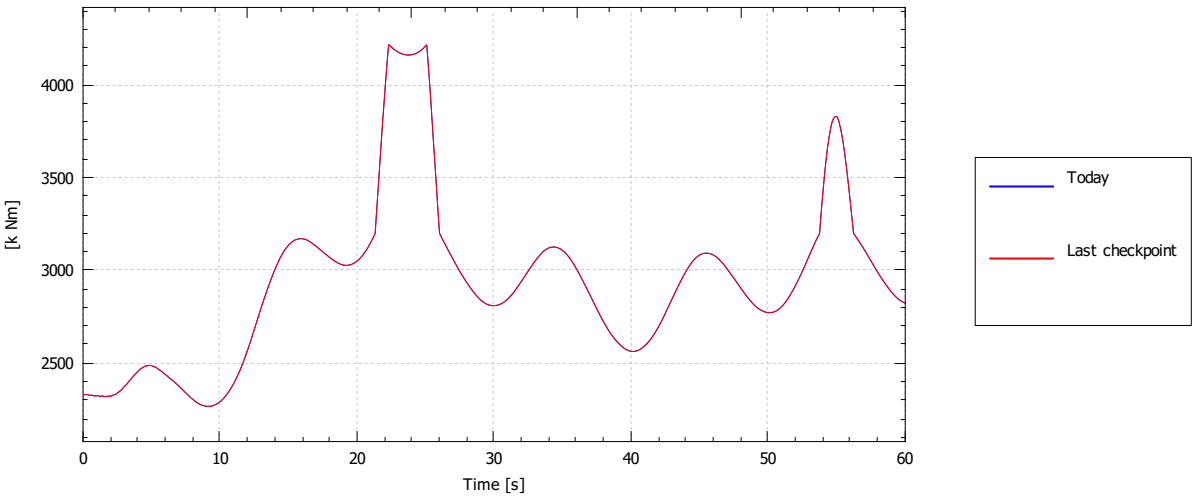
Power (electrical)



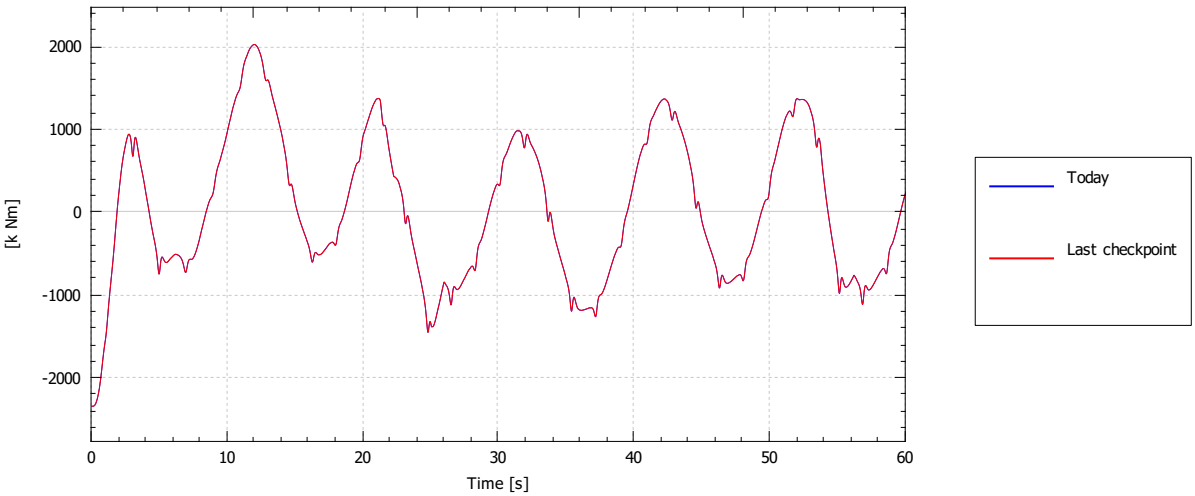

Torque



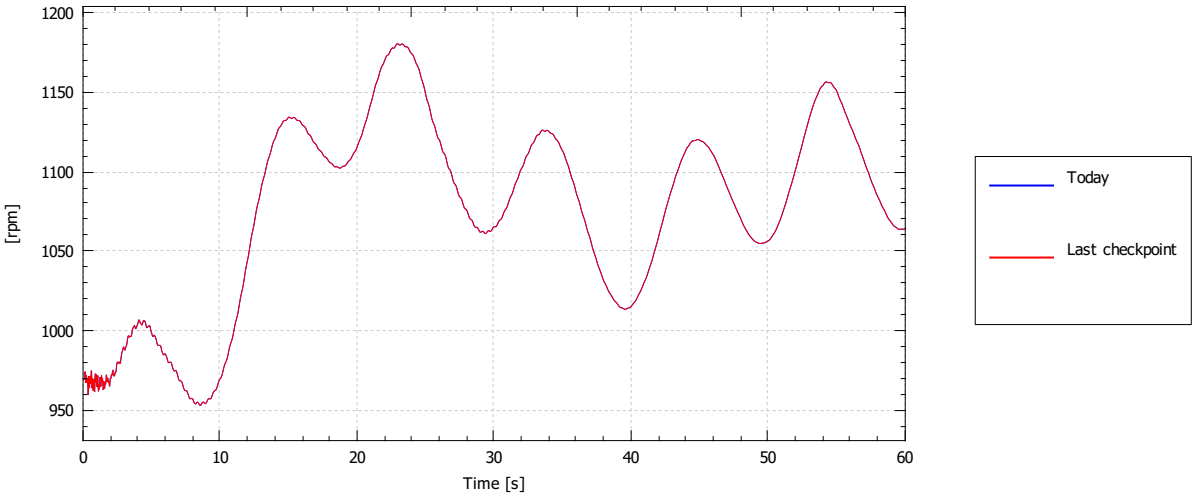

Torque on main shaft



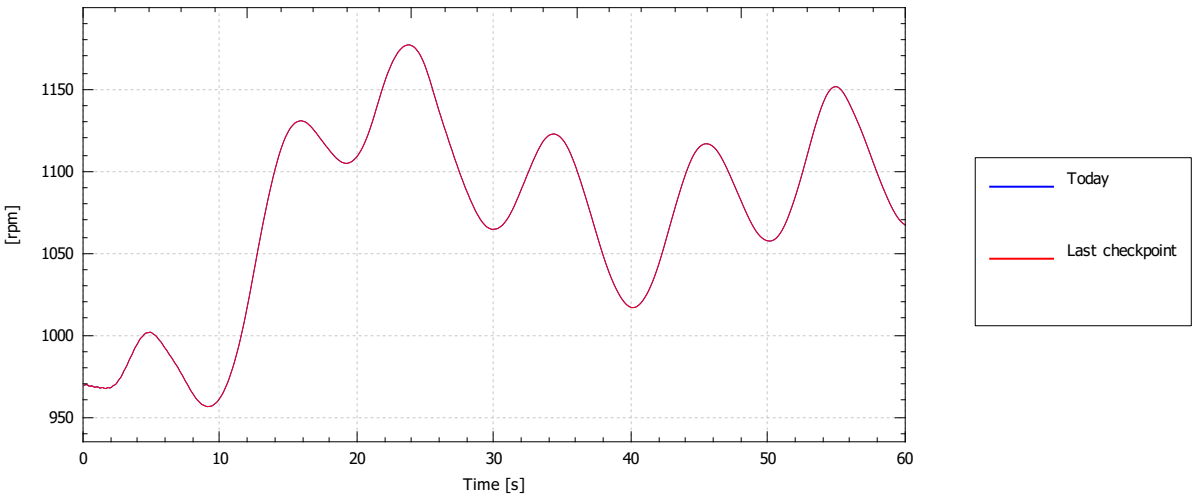
## Torque diff. on main shaft

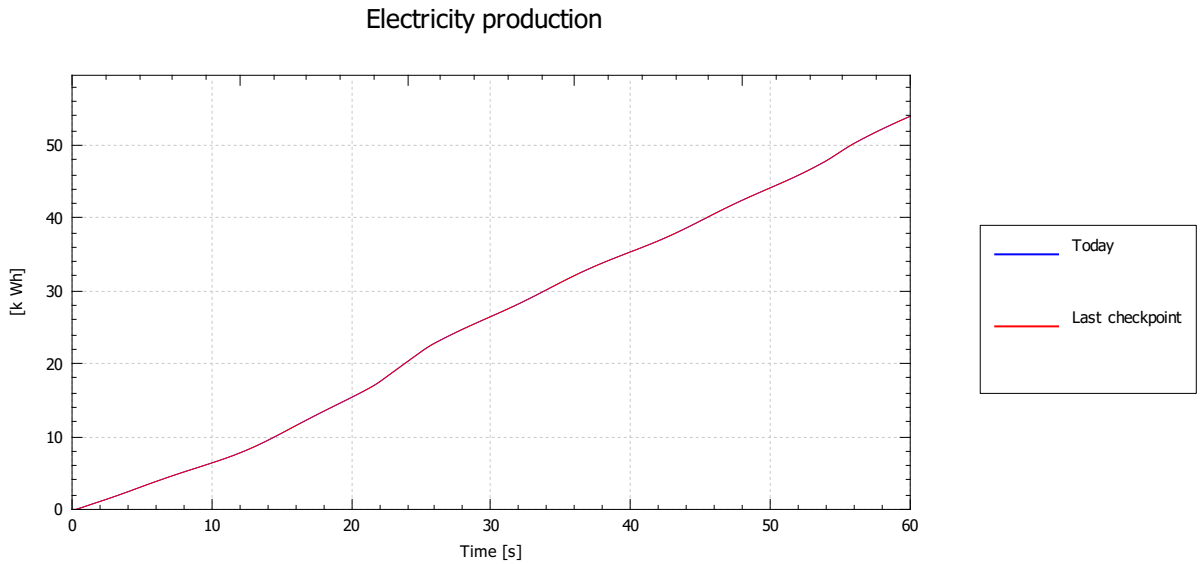


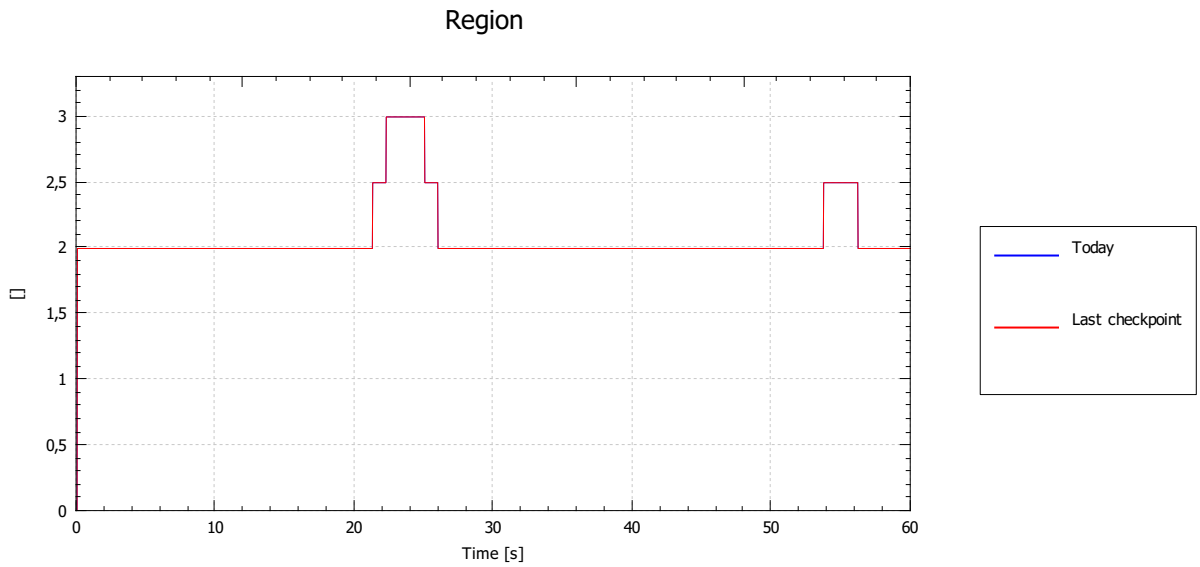

## RPM




## Filtered RPM

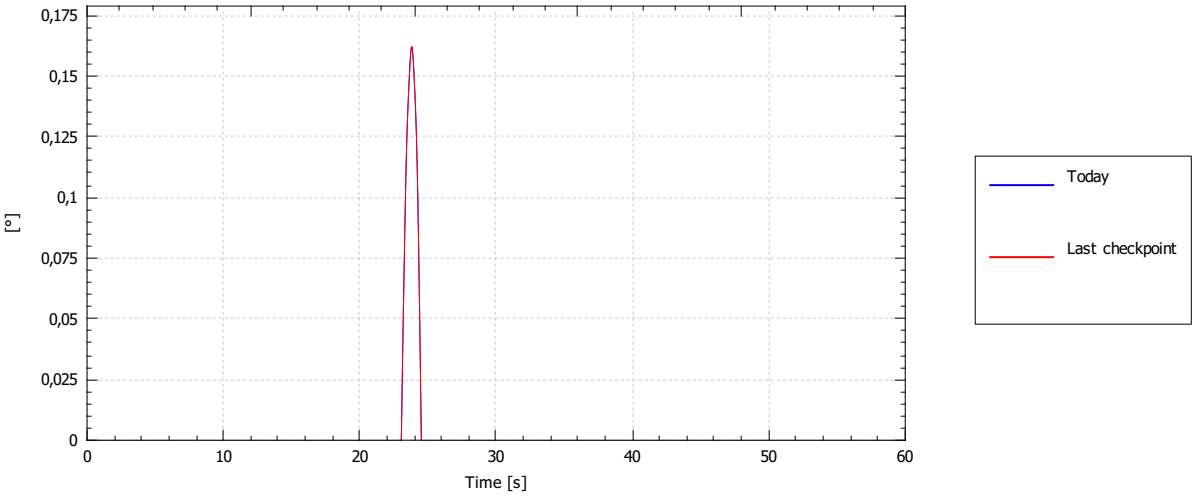




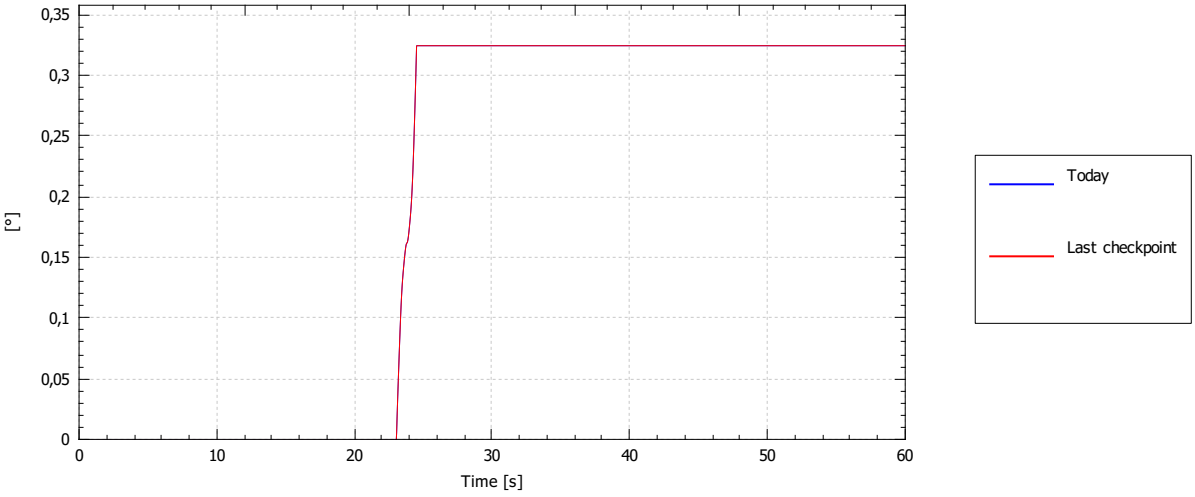




**Demanded pitch controller**

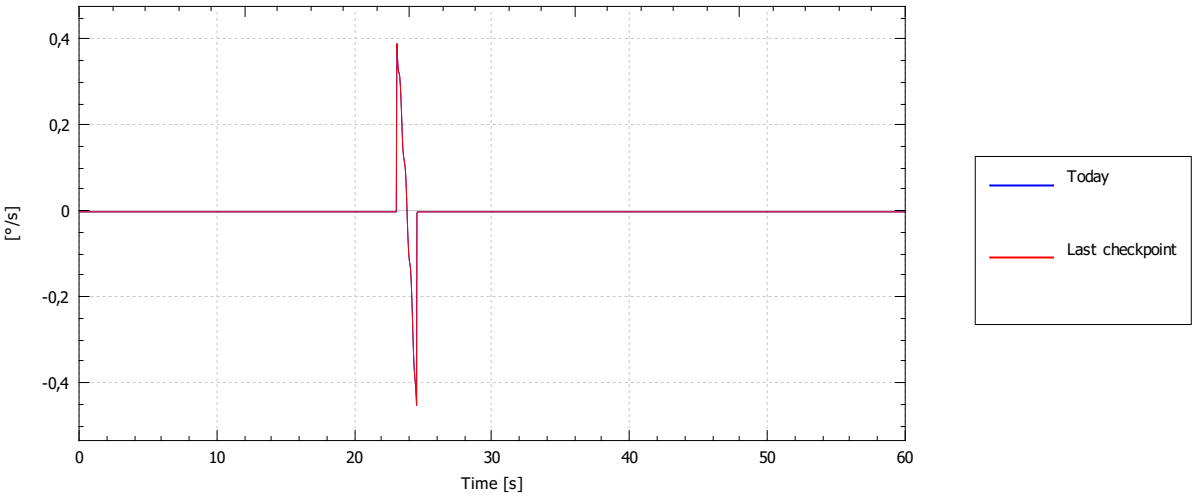
## Demanded collective pitch angle



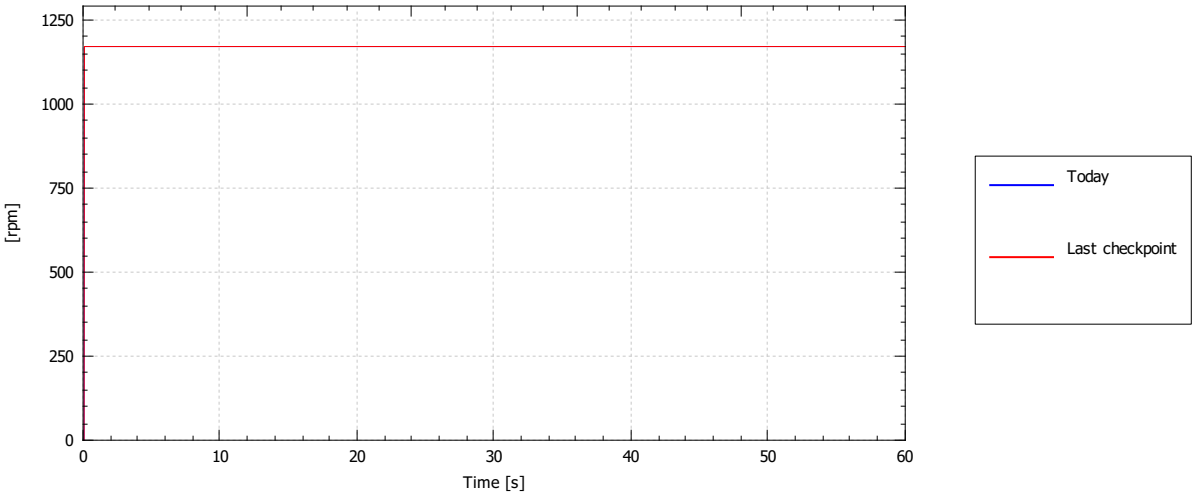

## Cumulative demanded collective pitch angle



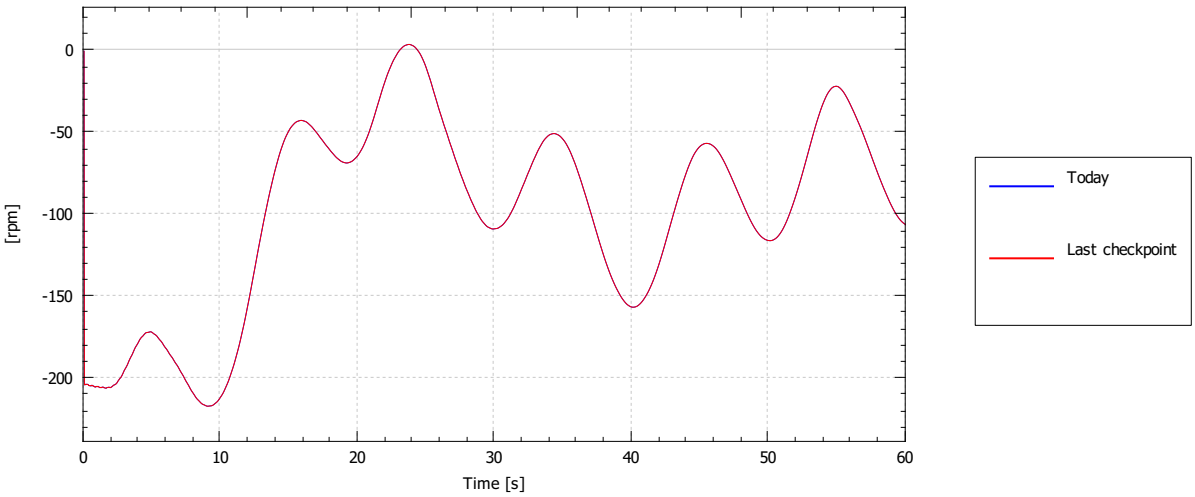

## Demanded collective pitch angle rate



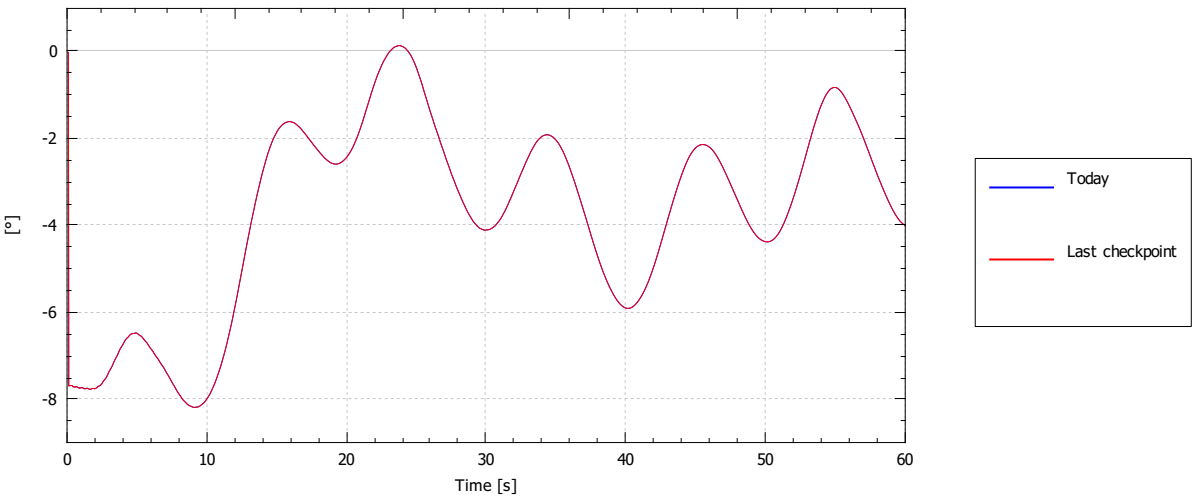
## Set point



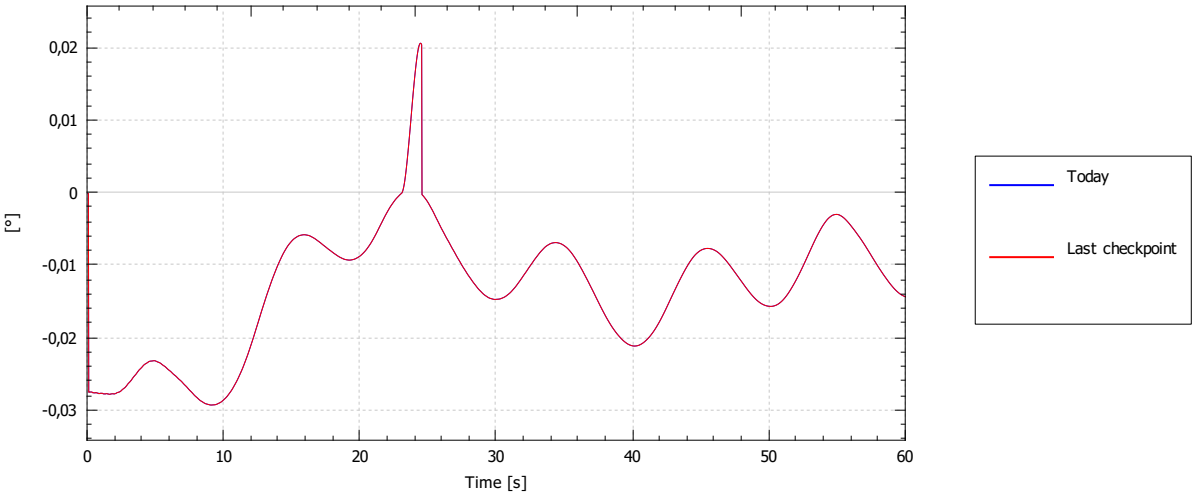

## RPM error



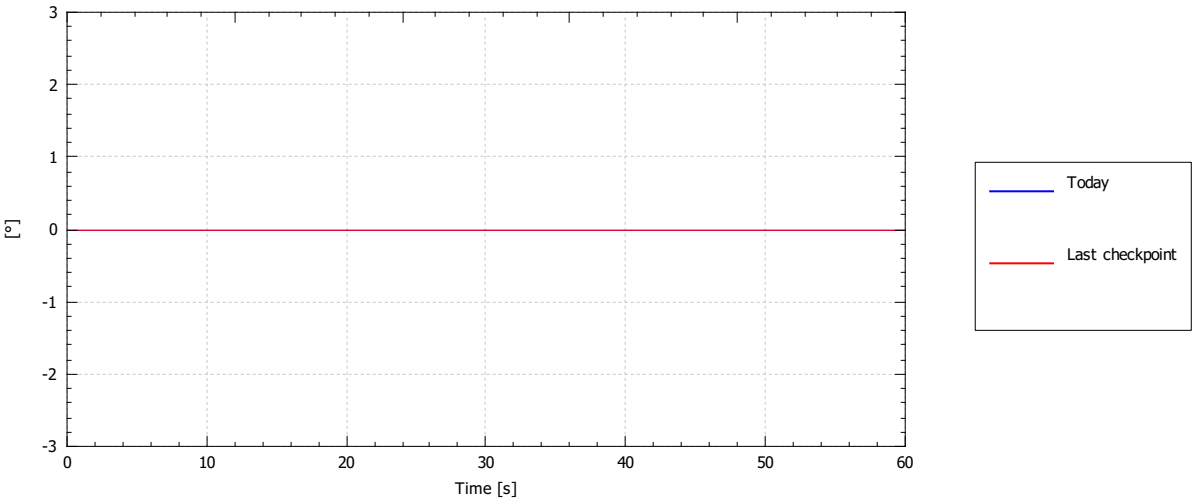

## P term



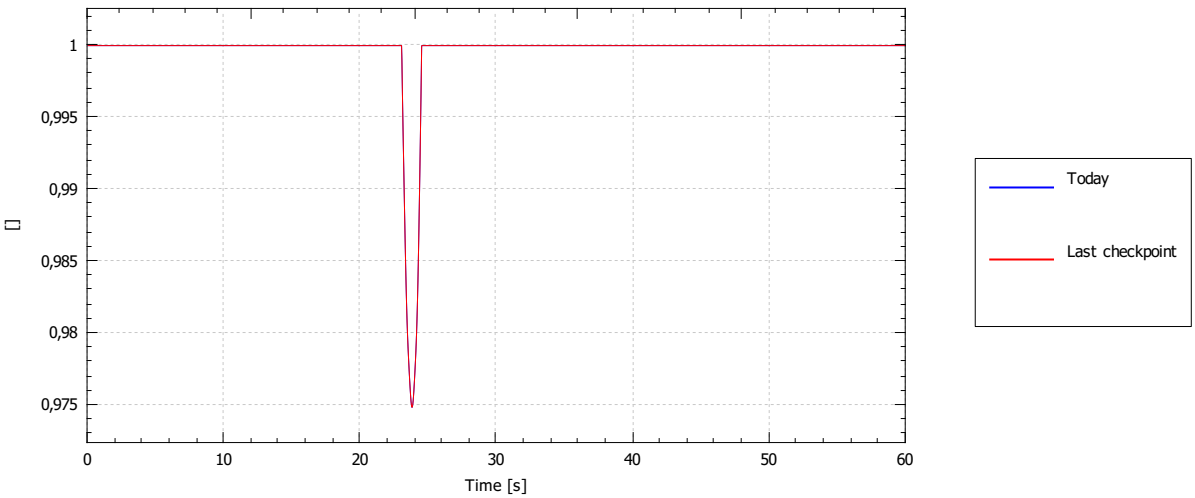
I term




D term

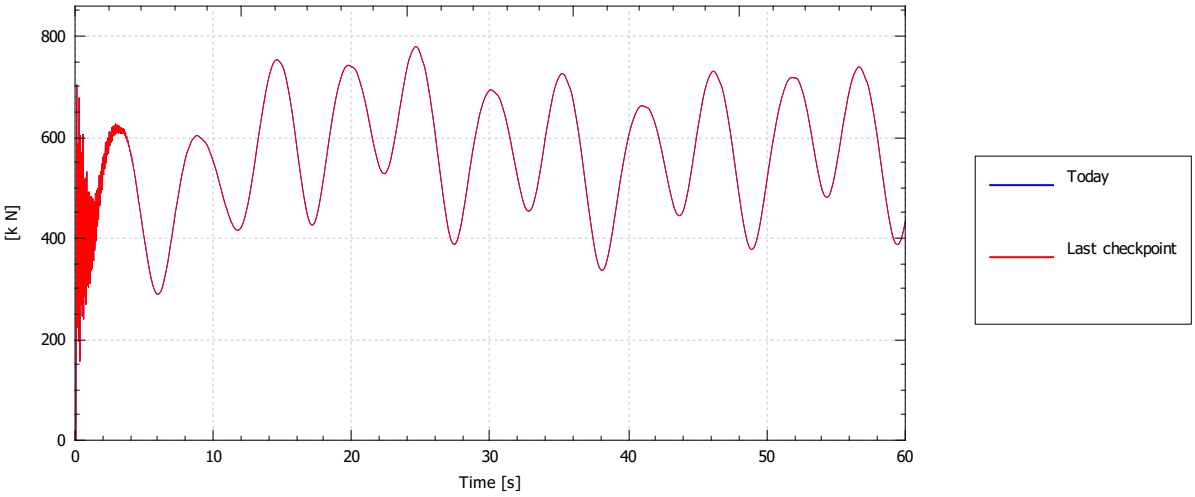



Gain scheduling factor

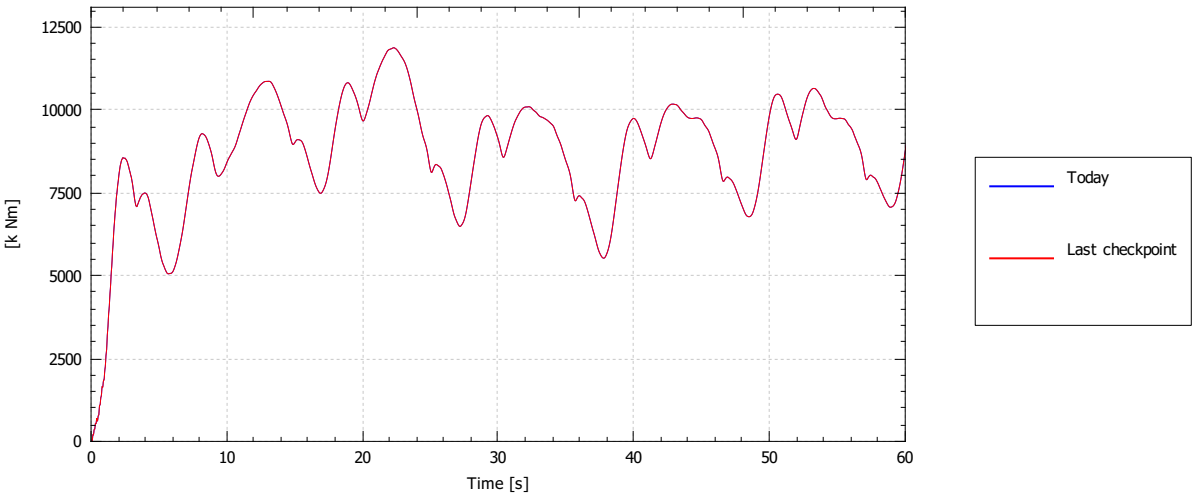


**Blade [Time] [Blade 1]**

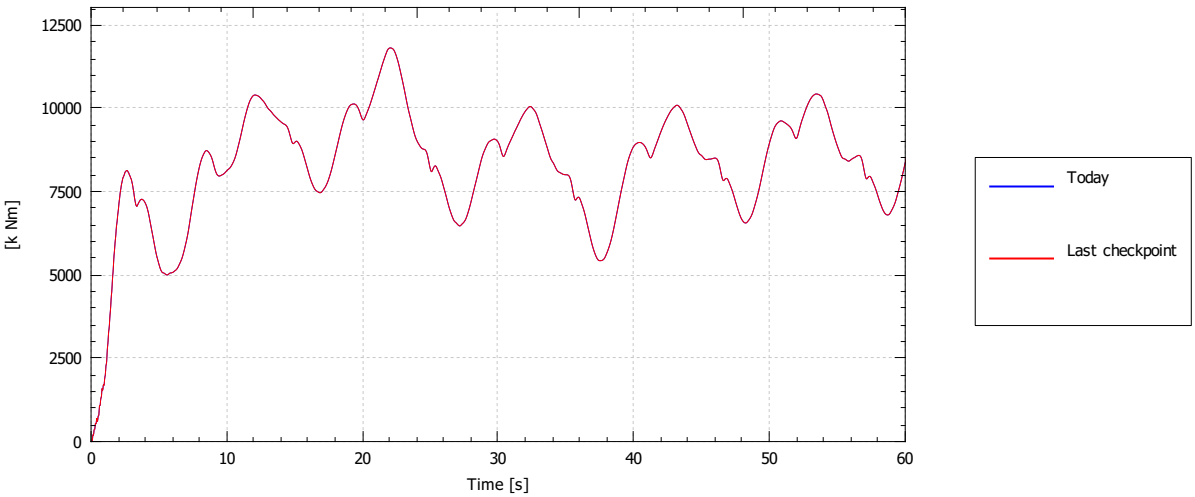
Root force (magnitude)



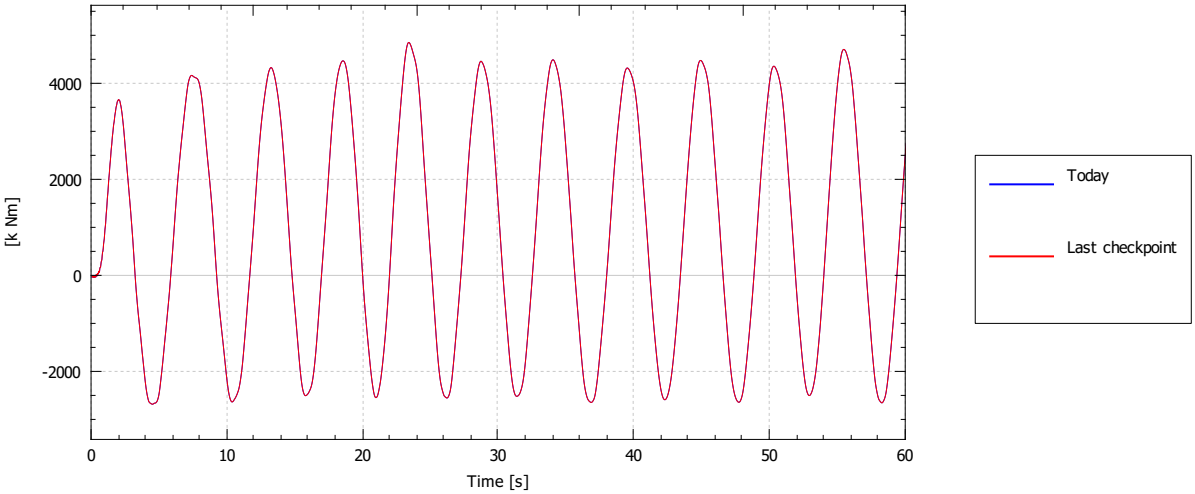

Root moment (magnitude)



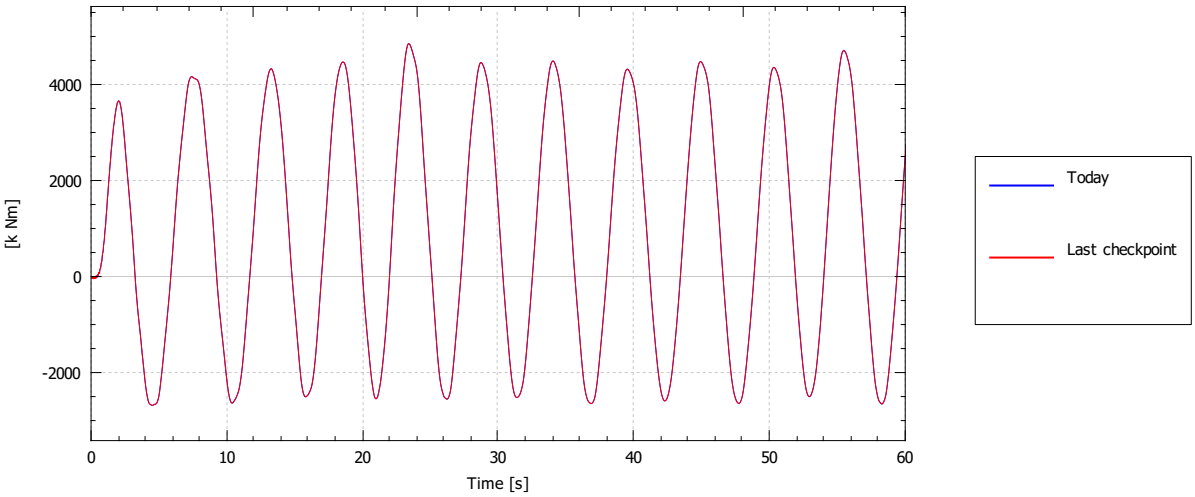

Root moment (out-of-plane)



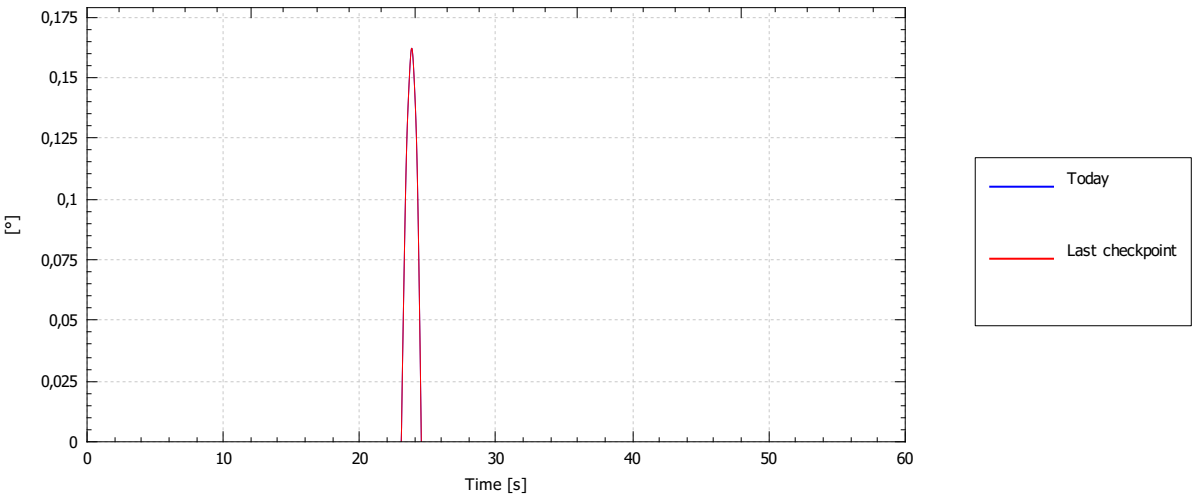
Root moment (in-plane)



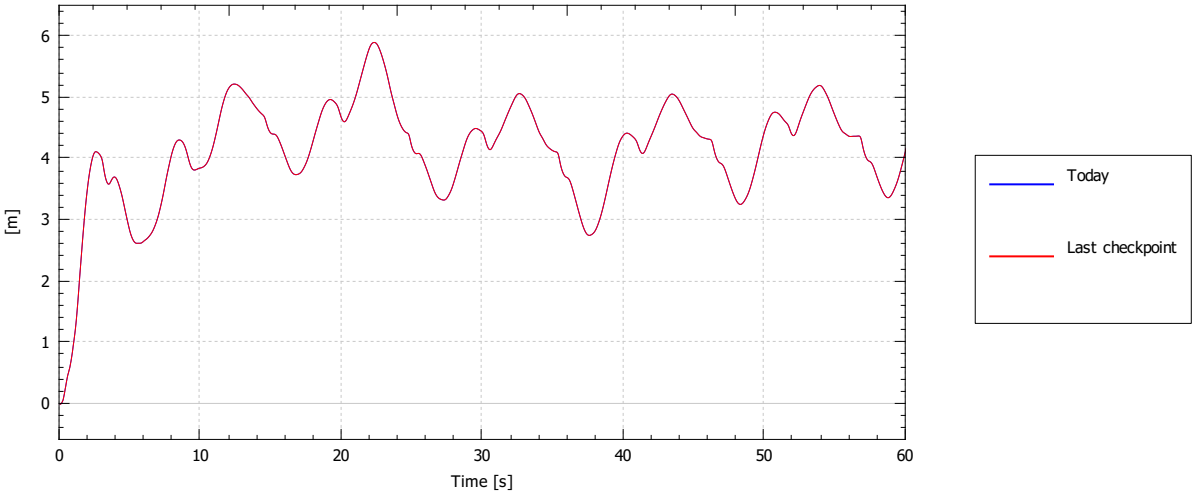

Root moment about shaft



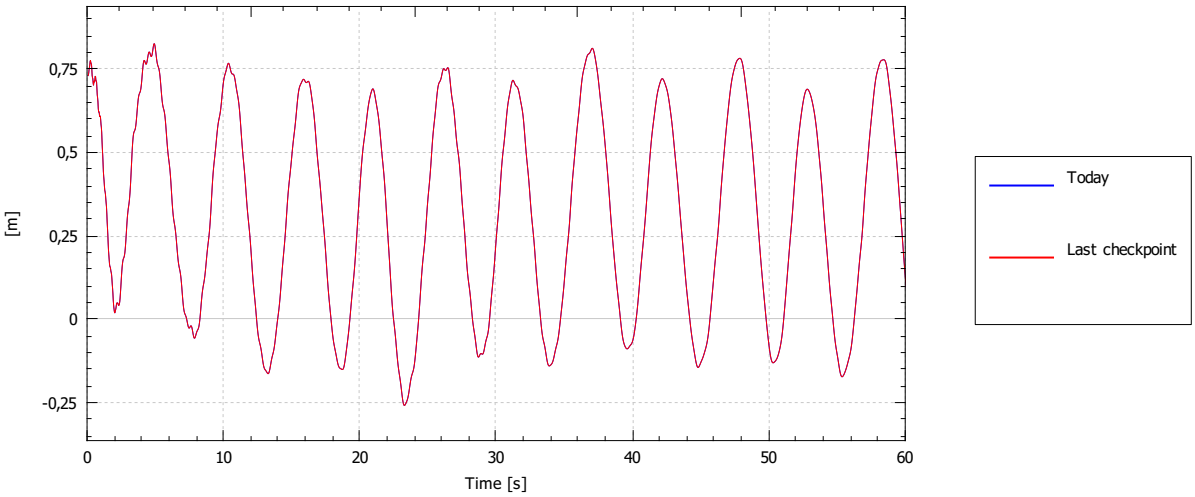

Pitch angle



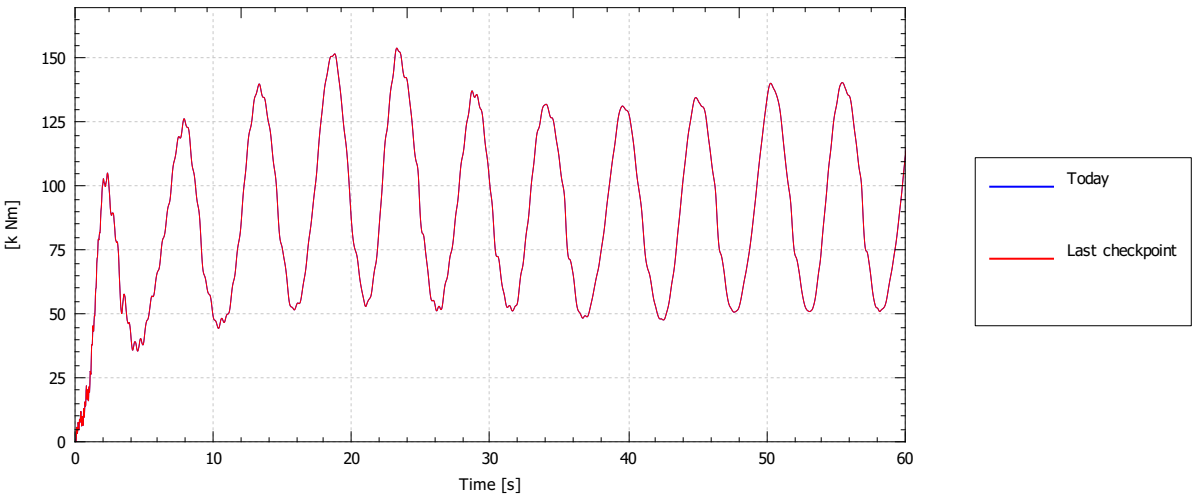
Tip deflection (out-of-plane)




Tip deflection (in-plane)

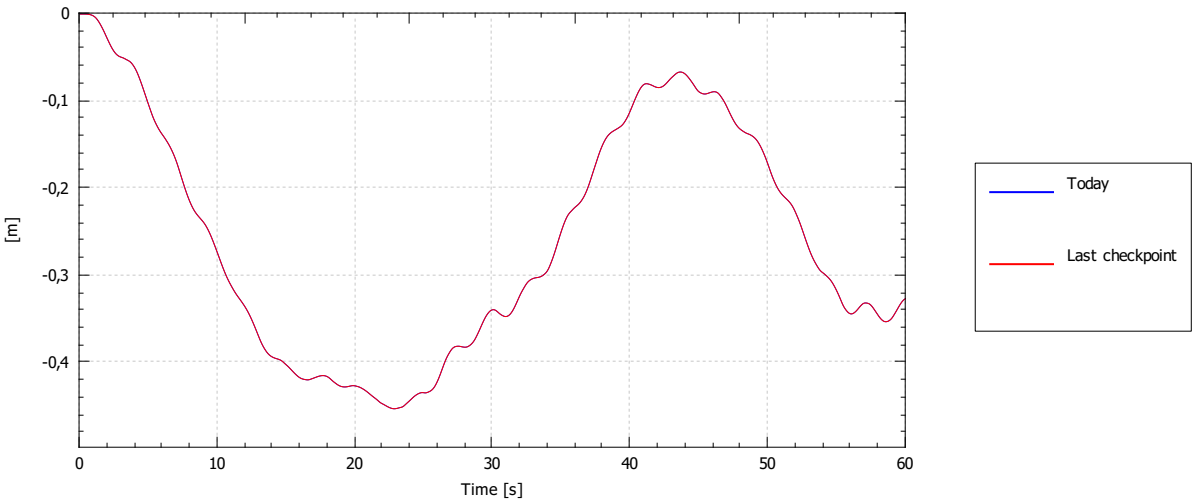



Root torque

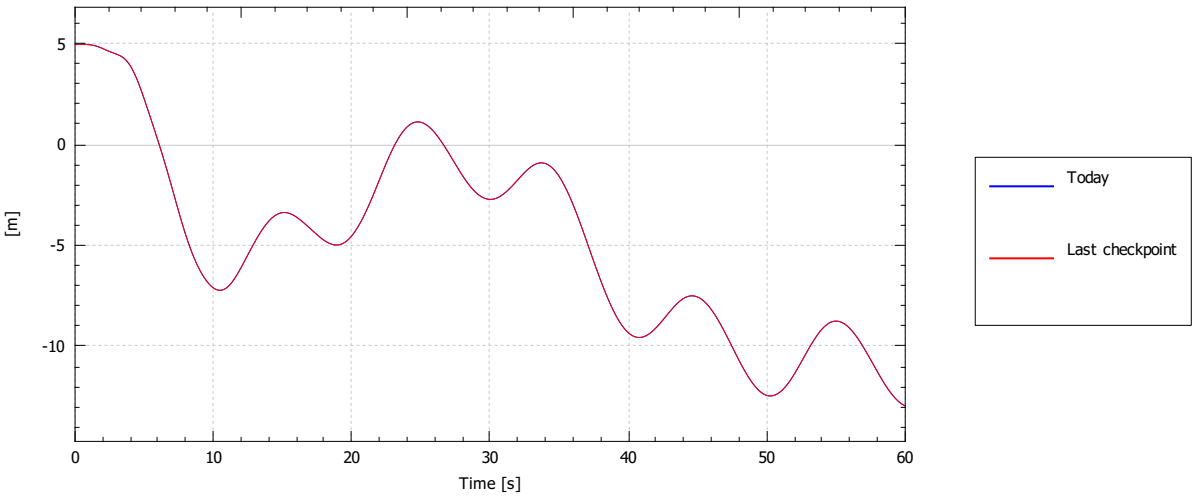


**Node [Node Hub | Hub]**

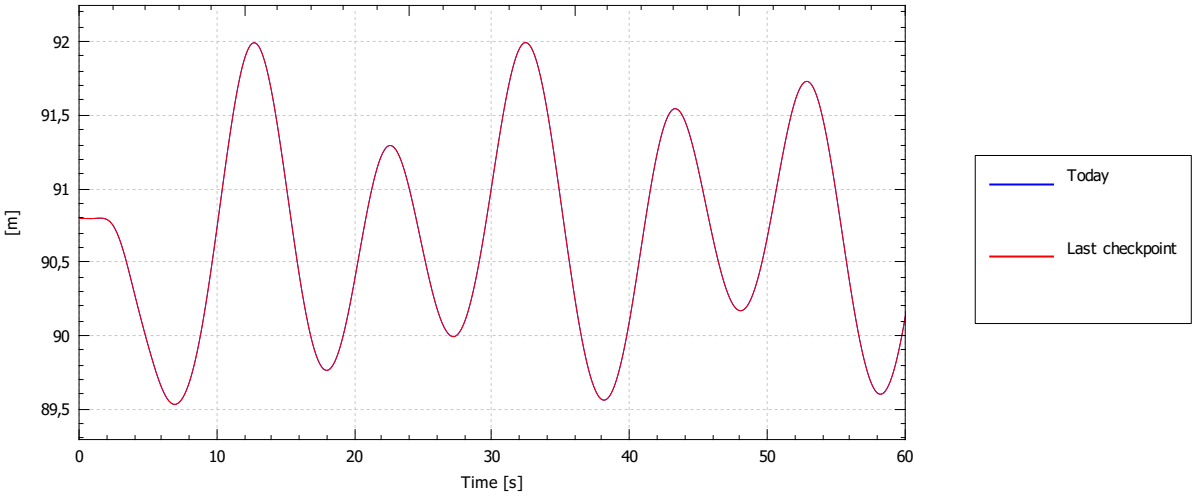
Position (x)



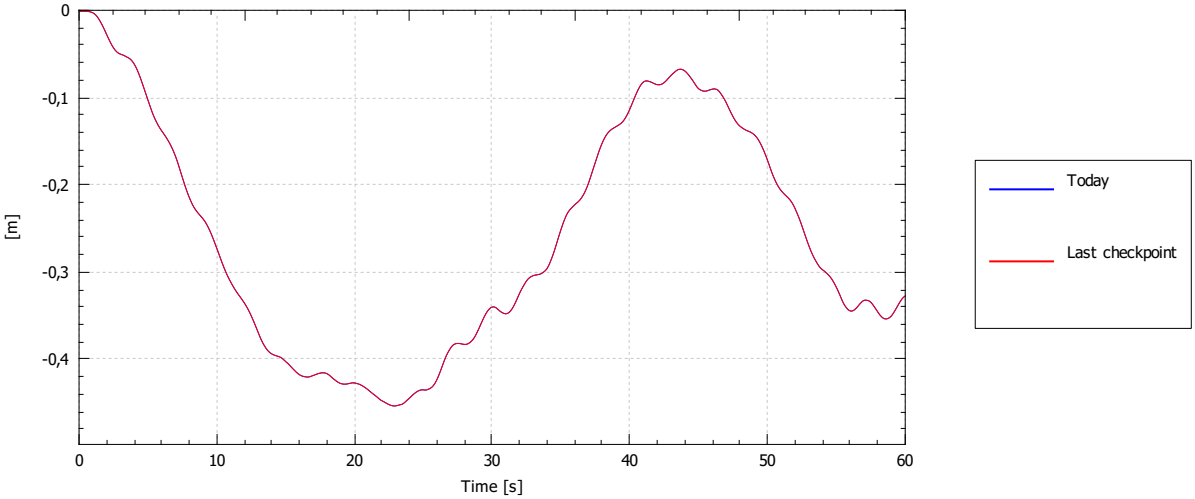

Position (y)



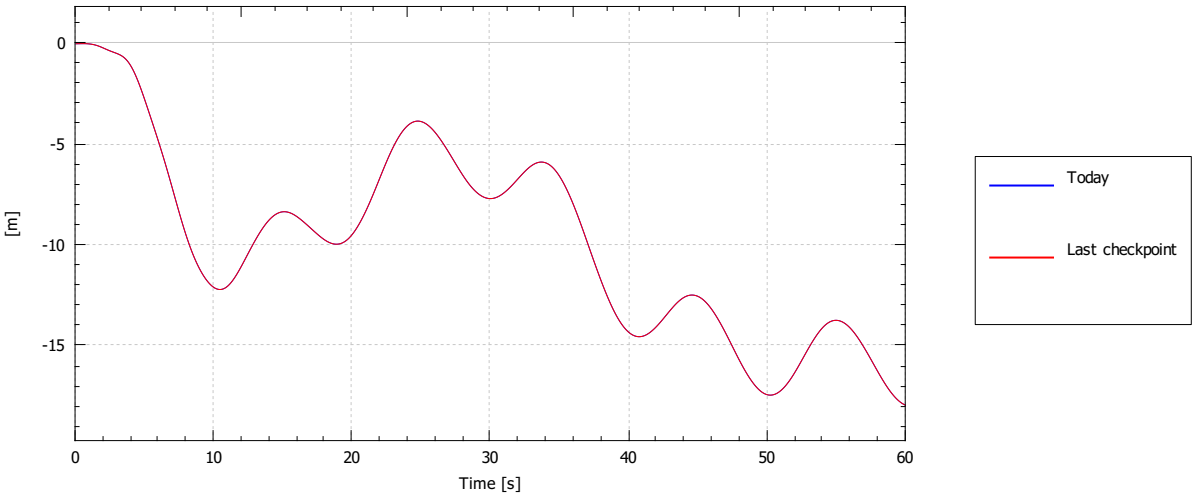

Position (z)



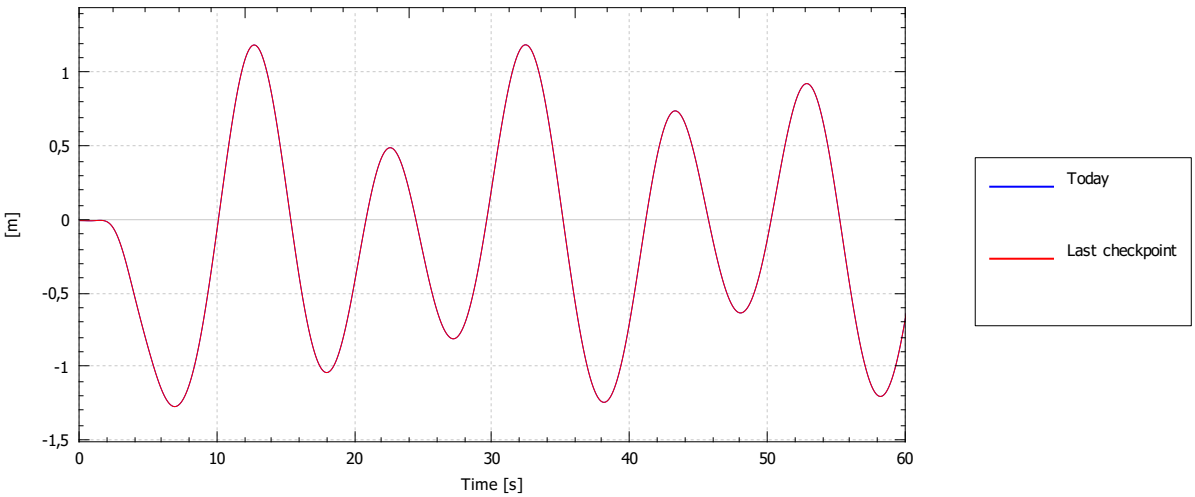
Displacement (u)



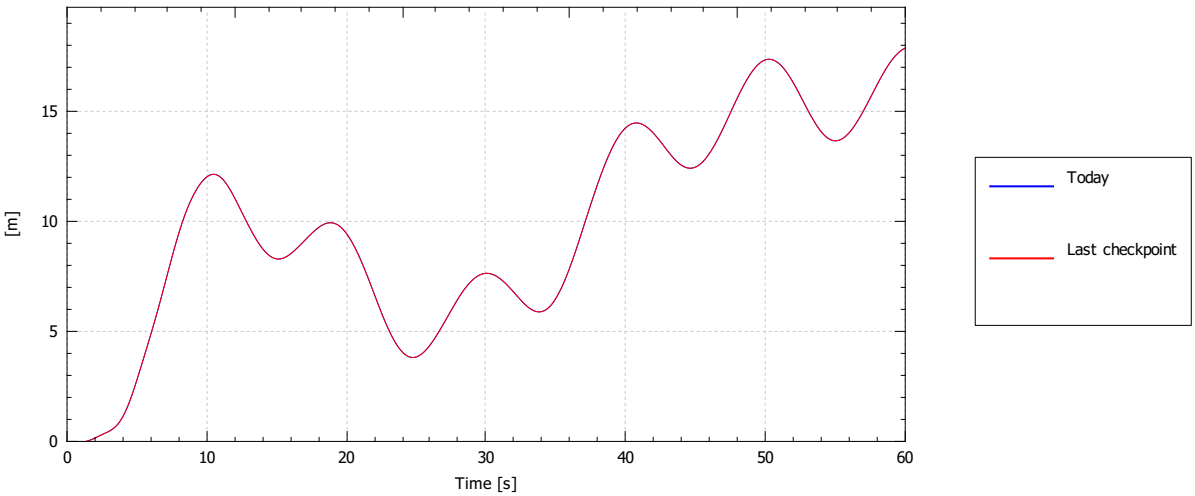

Displacement (v)



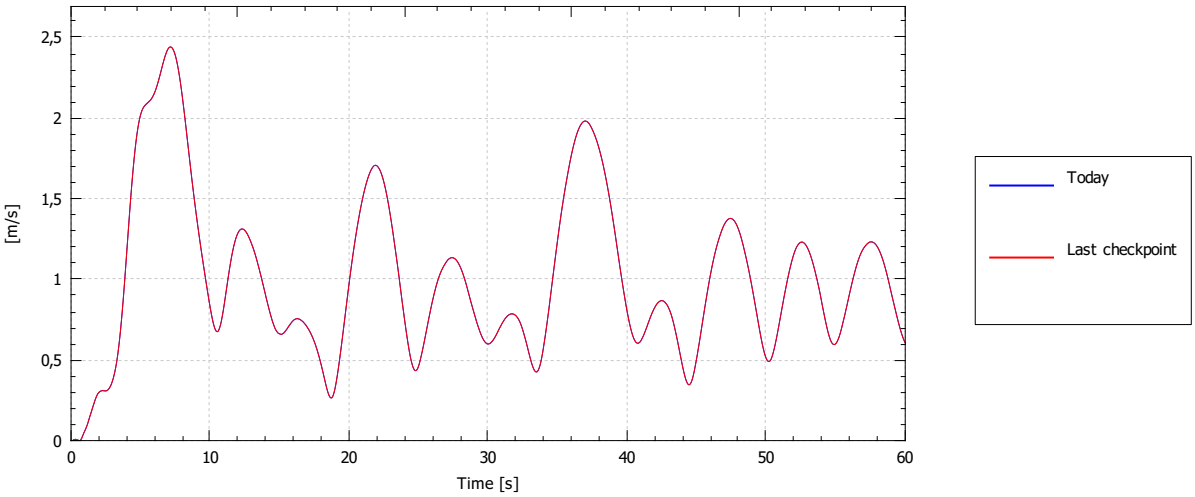

Displacement (w)



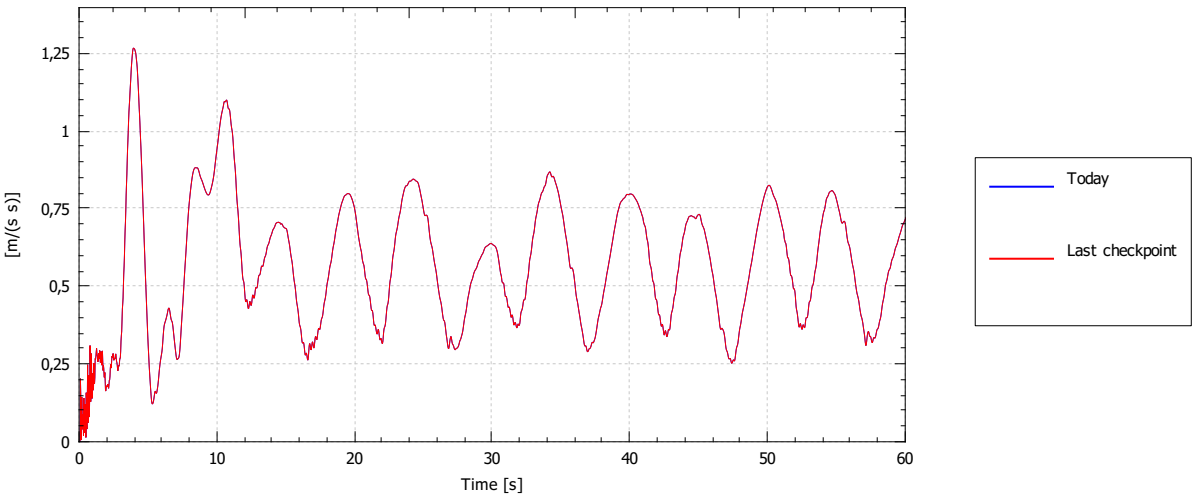
## Displacement magnitude



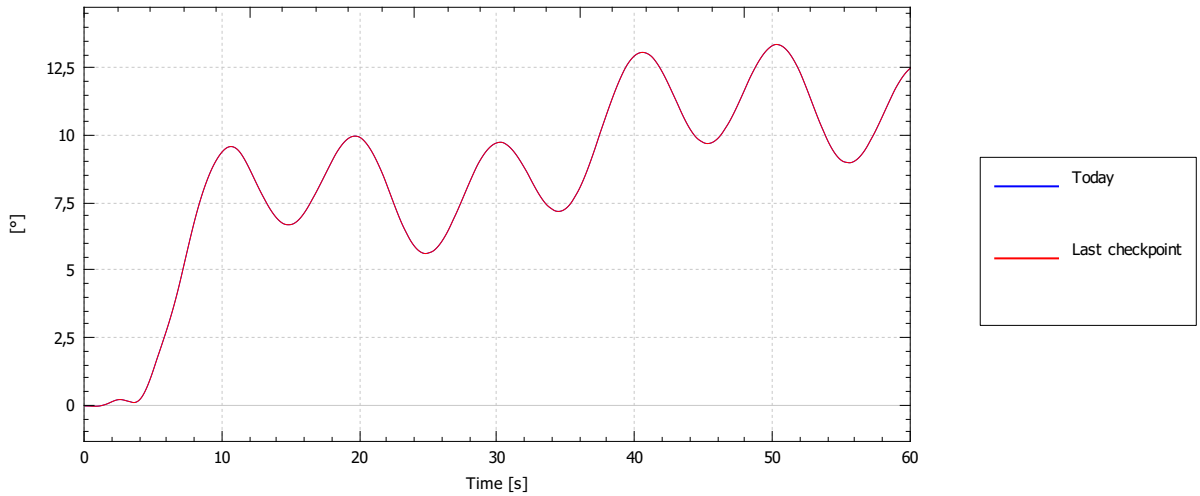

## Speed



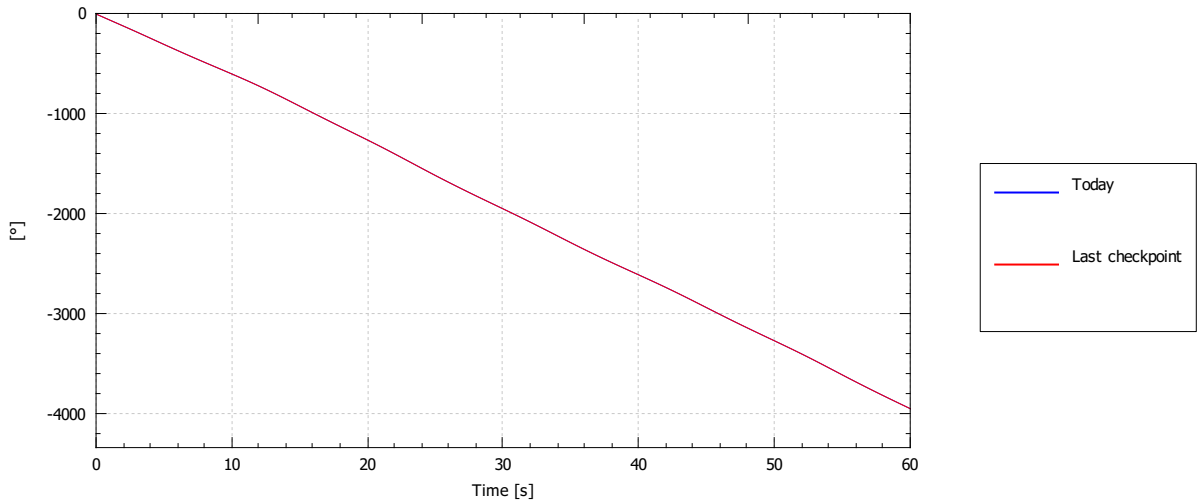

## Acceleration, magnitude



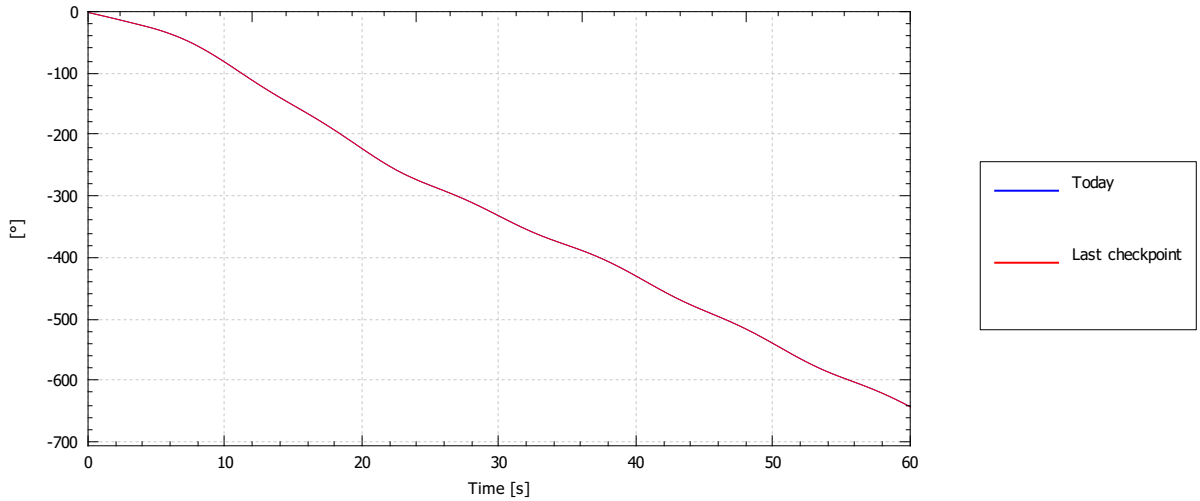
Rotational displacement (ru)



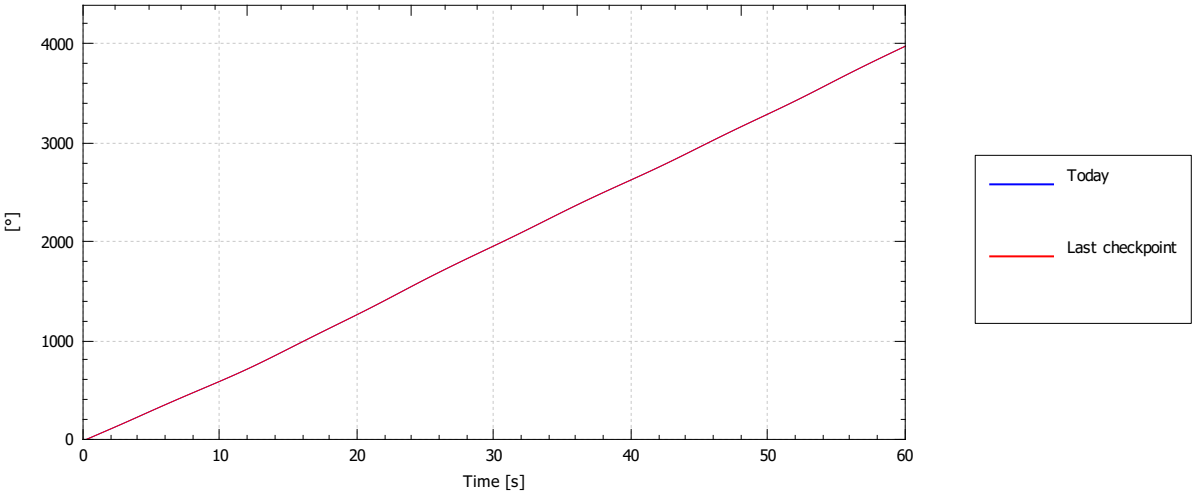

Rotational displacement (rv)



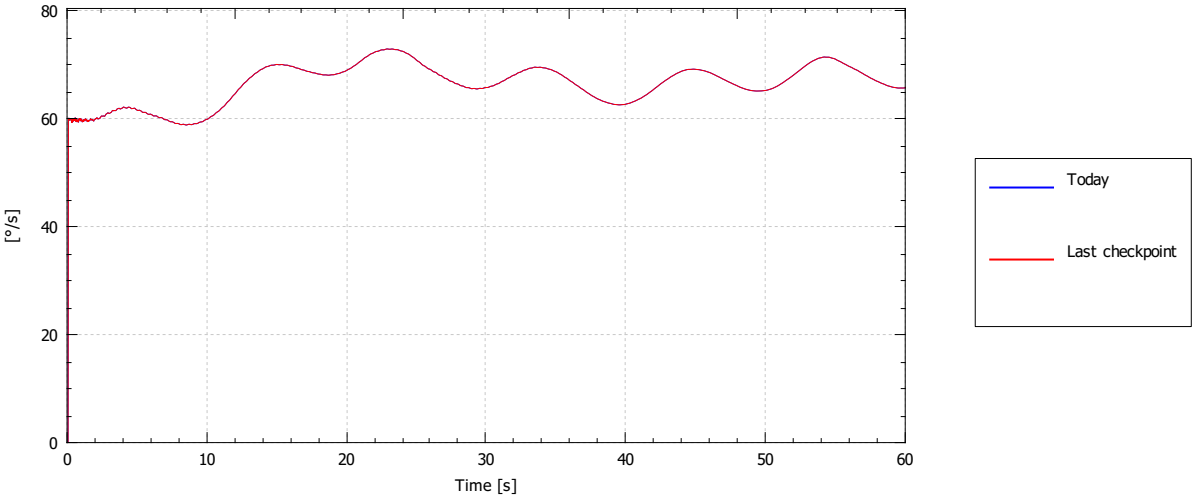

Rotational displacement (rw)



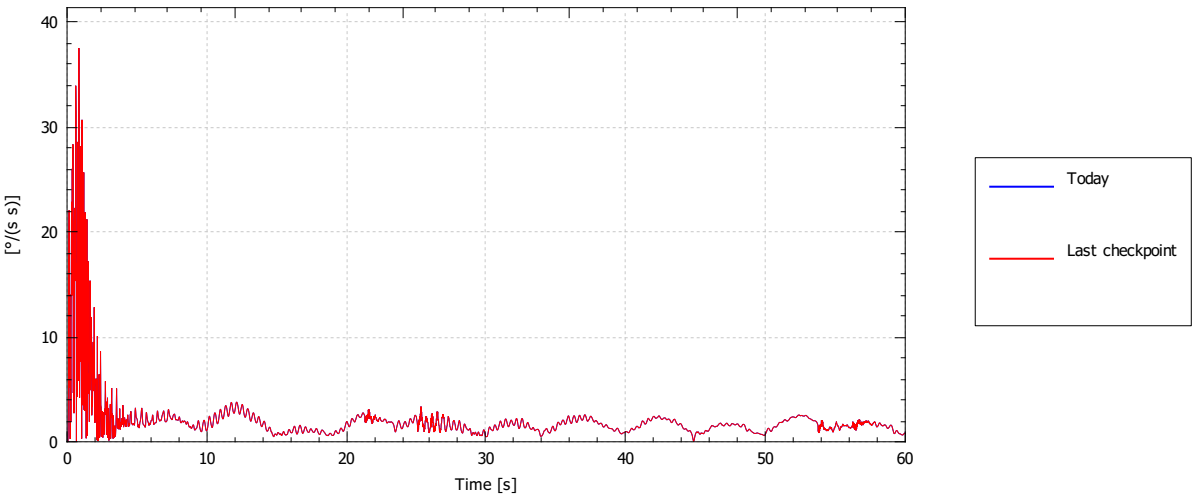
Rotational displacement magnitude



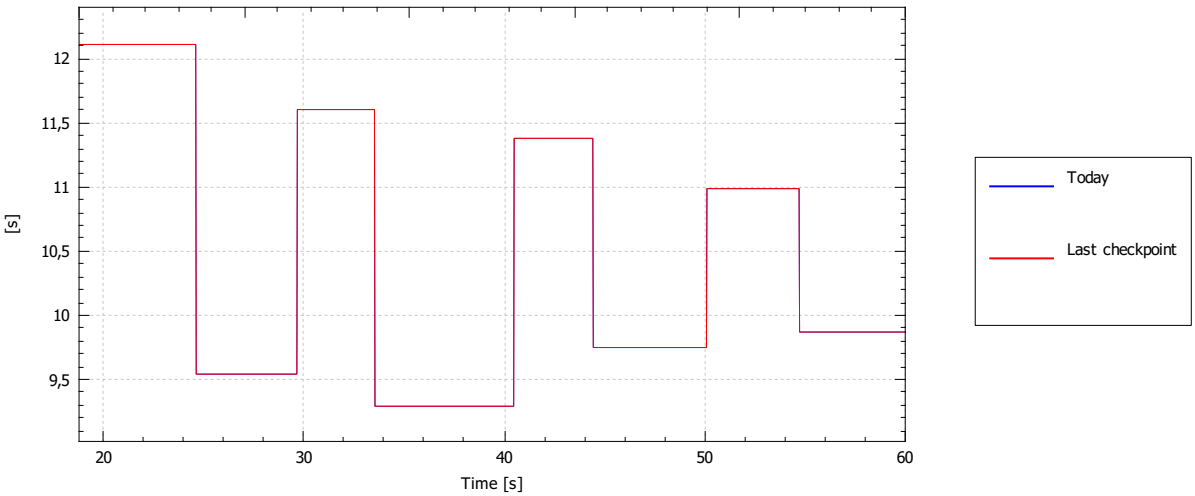

Rotational speed



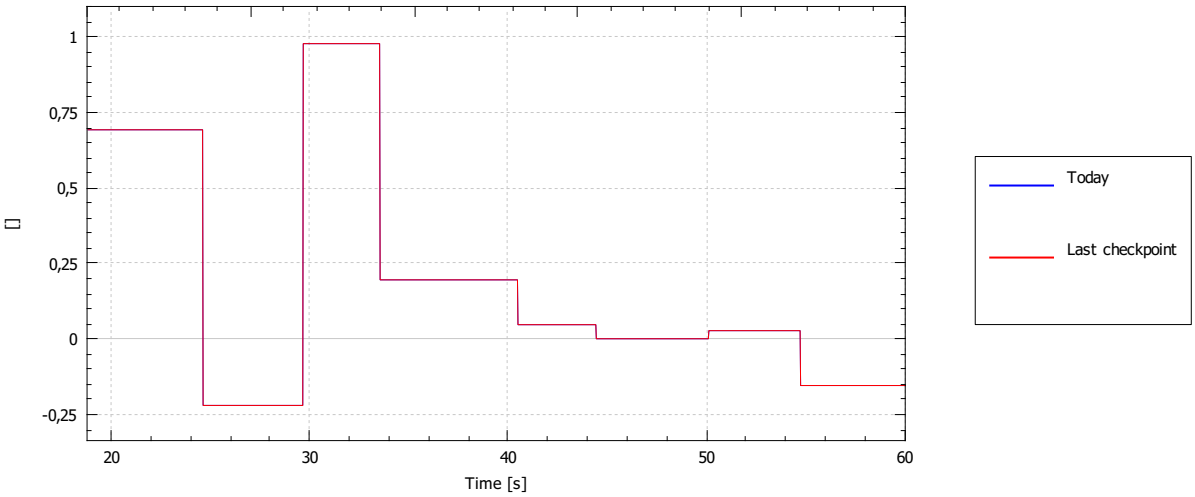

Rotational acceleration mag



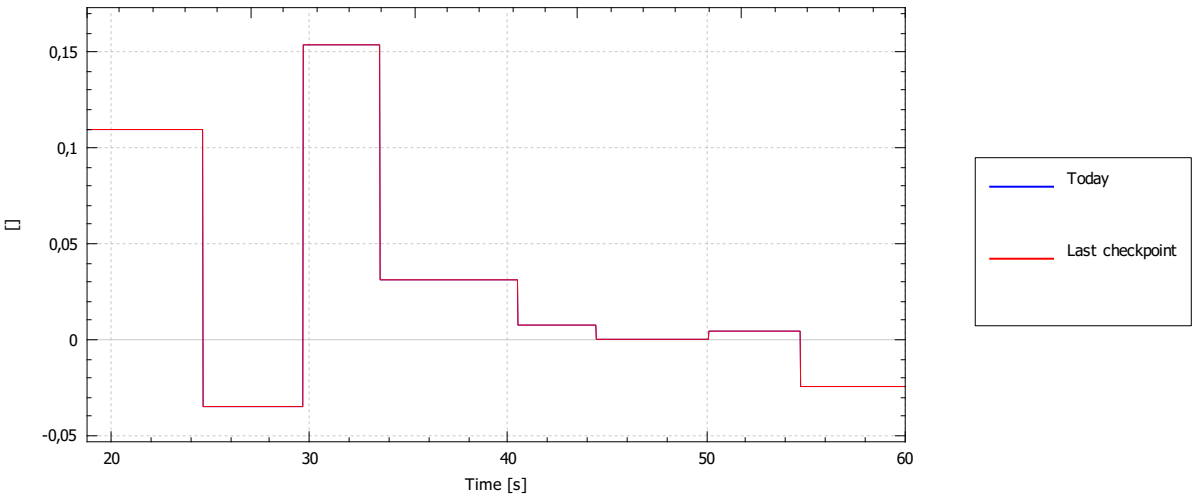
## Displacement period



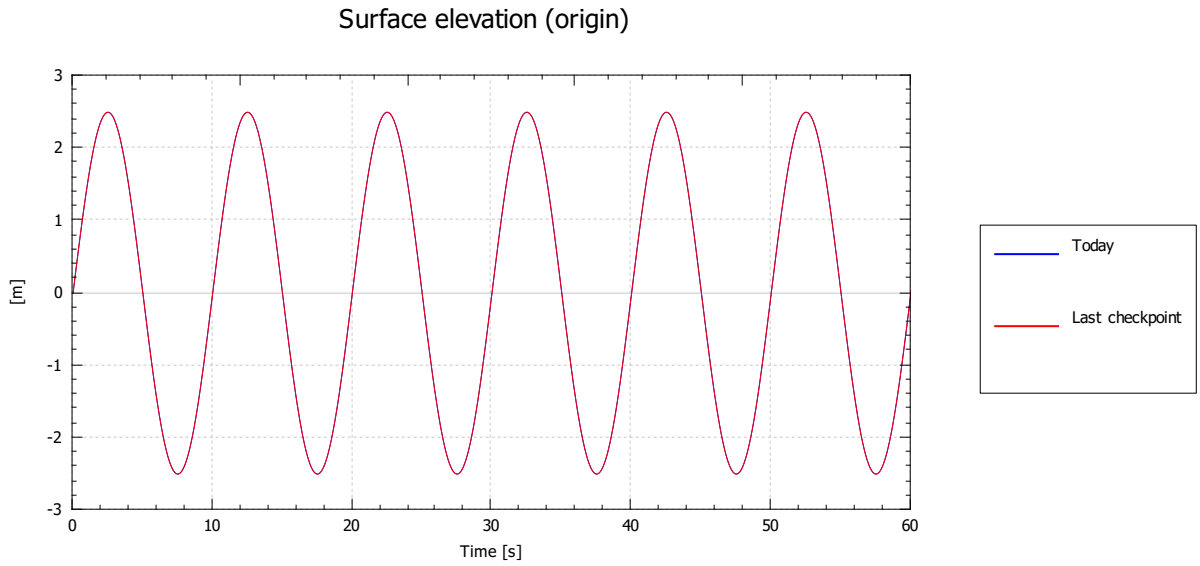

## Displacement logarithmic decrement

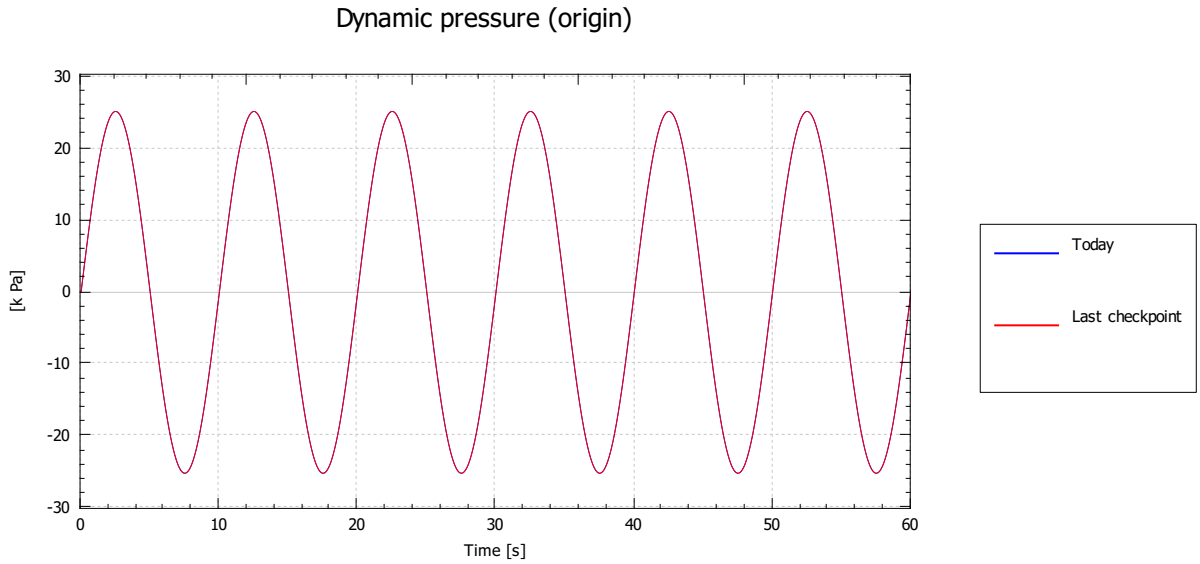



## Displacement damping ratio



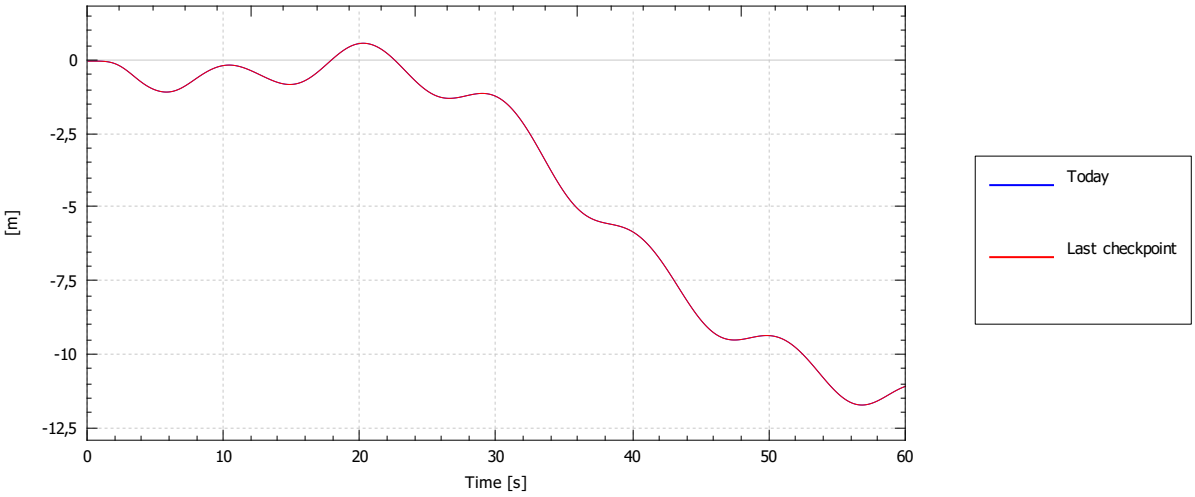
**Sea**


Surface elevation (origin)
[m]
Time [s]
Today
Last checkpoint

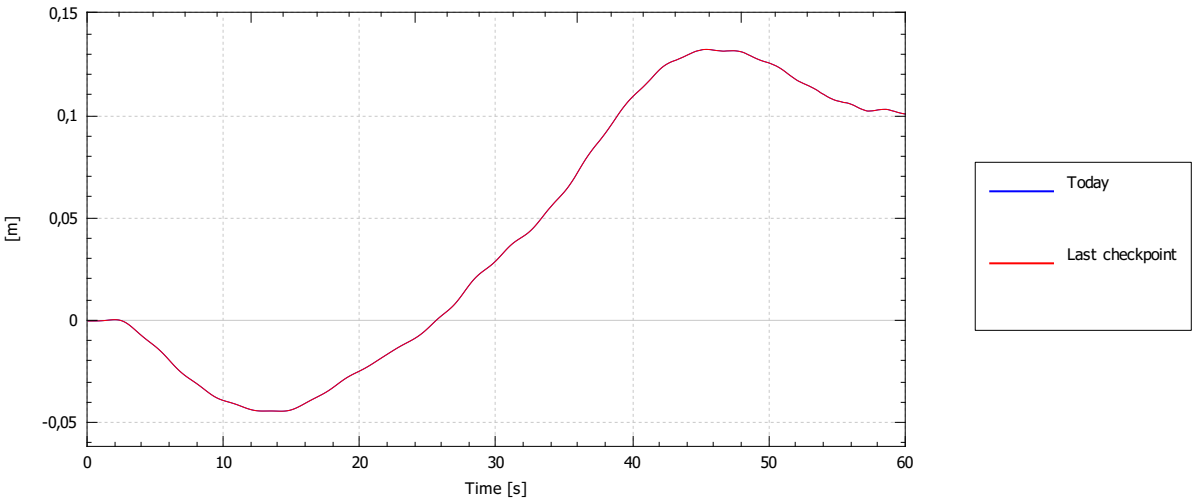

Dynamic pressure (origin)
[k Pa]
Time [s]
Today
Last checkpoint

**Floater**

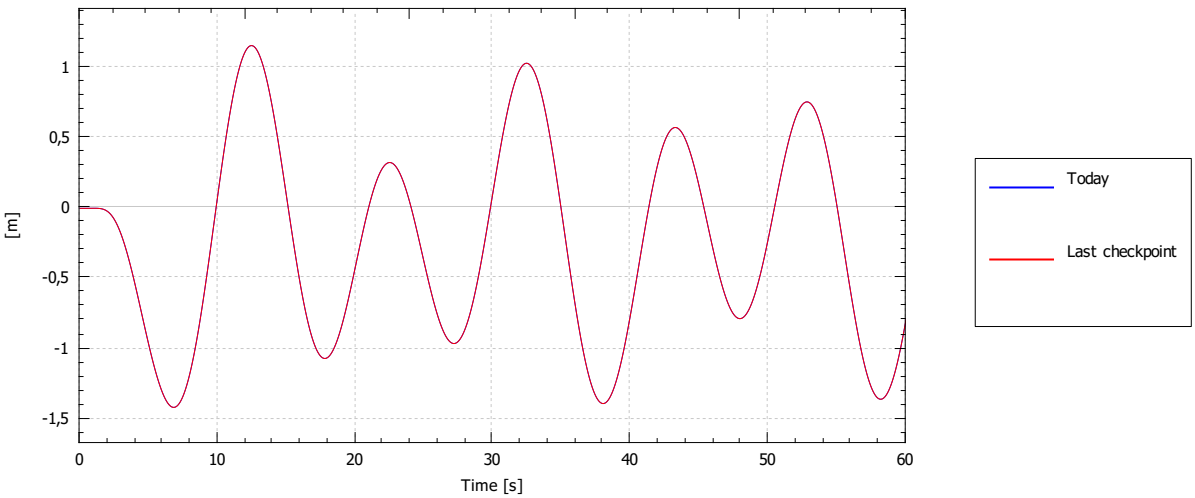
## Surge (forward)



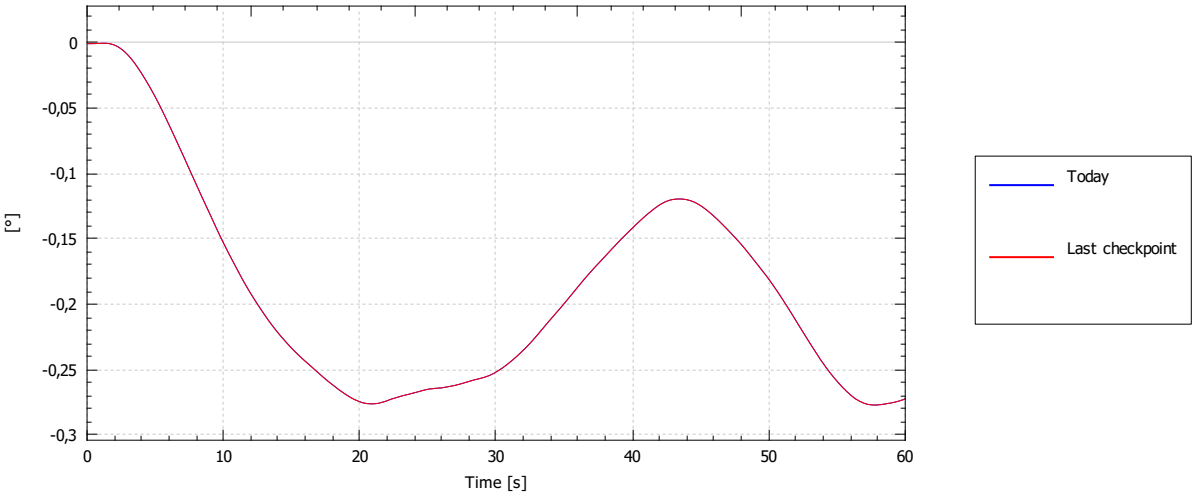

## Sway (sideways)



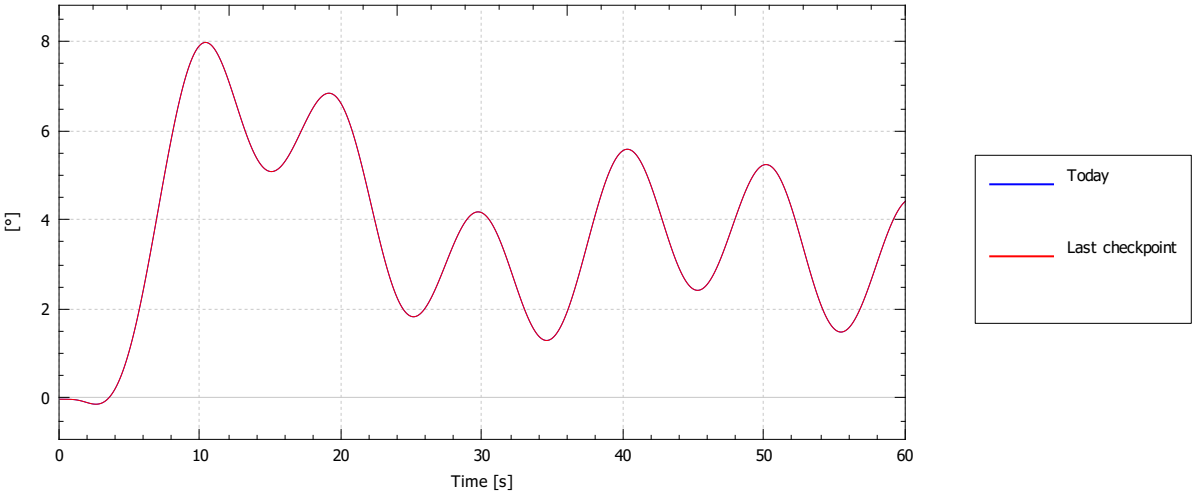

## Heave (up)



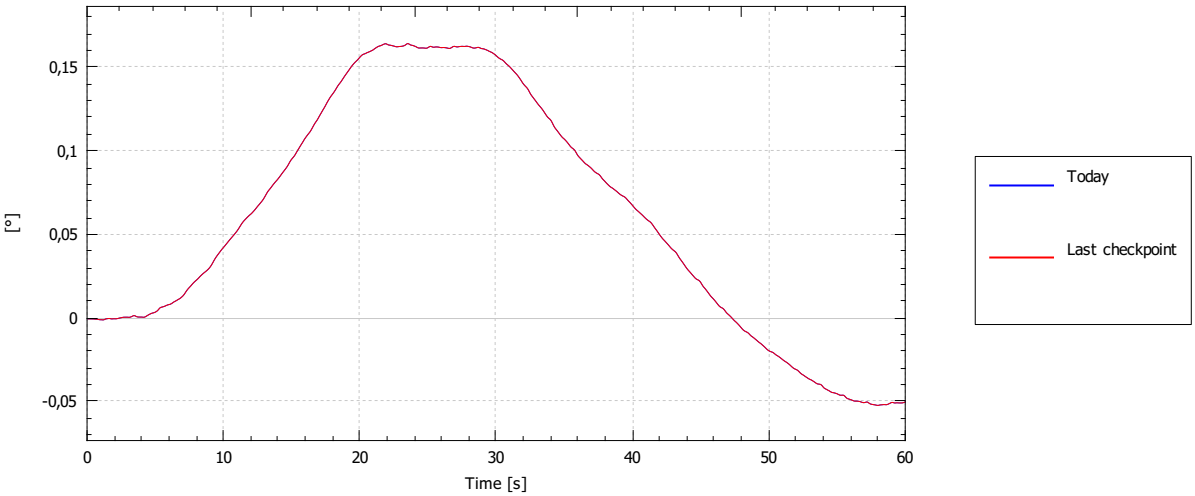
Roll (about surge axis)



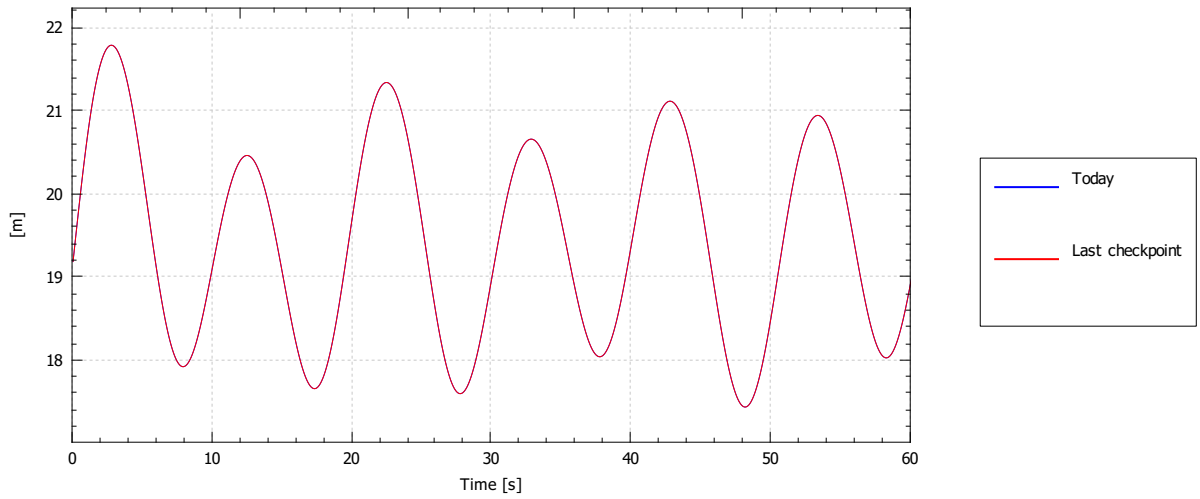

Pitch (about sway axis)




Yaw (about heave (vertical) axis)



## Draft




## Yaw error (relative to wind angle)