| flight pahse C | Design | Modes | | ζ | ωd <i>(F1)</i> | T2 | τ | Design | Modes | | ζ | ωd <i>(F1)</i> | T2 | τ |
|--|----------------|---------|-------------------------------------|----------------------|----------------|----------------------|---|---------|---------------------------|-------------------------------------|----------------------|----------------|---------|----------|
| lter 1 | With Weight | long. | | 0.617551 | | 7.22664 | | Without | long. | sp (1) | 0.009491 0.674 | | 6.47386 | |
| | | lateral | spiral (4) roll (1) dutch (2) | | 0.728307 | 7.22004 | 0.036039 | Weight | lateral | spiral (4) roll (1) dutch (2) | 0.135635 | 0.727863 | | 0.032238 |
| Iter 2 | With Weight | long. | | 0.018865 0.378027 | | | | Without | long. | 0 , , | 0.017979 0.430617 | | | |
| | | lateral | spiral (4) roll (1) dutch (2) | | 0.650641 | 6.14956 | | Weight | lateral | spiral (4) roll (1) dutch (2) | 0.091964 | 0.655326 | 5.36392 | 0.057557 |
| Iter 3 | With Weight | long. | phugoid (3) sp (1) |) | | | | | | (=) | | | | |
| | | lateral | spiral (4) roll (1) dutch (2) | | | | | | | | | | | |
| Iter 4 | With Weight | long. | phugoid (3) | | | | | | | | | | | |
| | | lateral | spiral (4) roll (1) dutch (2) | | | | | | | | | | | |
| NOTES Make sure inertia extracted from solidworks/fusion is wrt the same axes corresponding to those in xflr5 assumed dutch maximum wd=.6 | | | | ne axes | | LVL 2 LVL 3 (Leas | frequency () or F1 LVL 3 (Least) Time to double (T2) or Dangerous (t2) | | | | | | | |
| | | | | | | | Too much stability | | for unstab Time consta | | | | | |