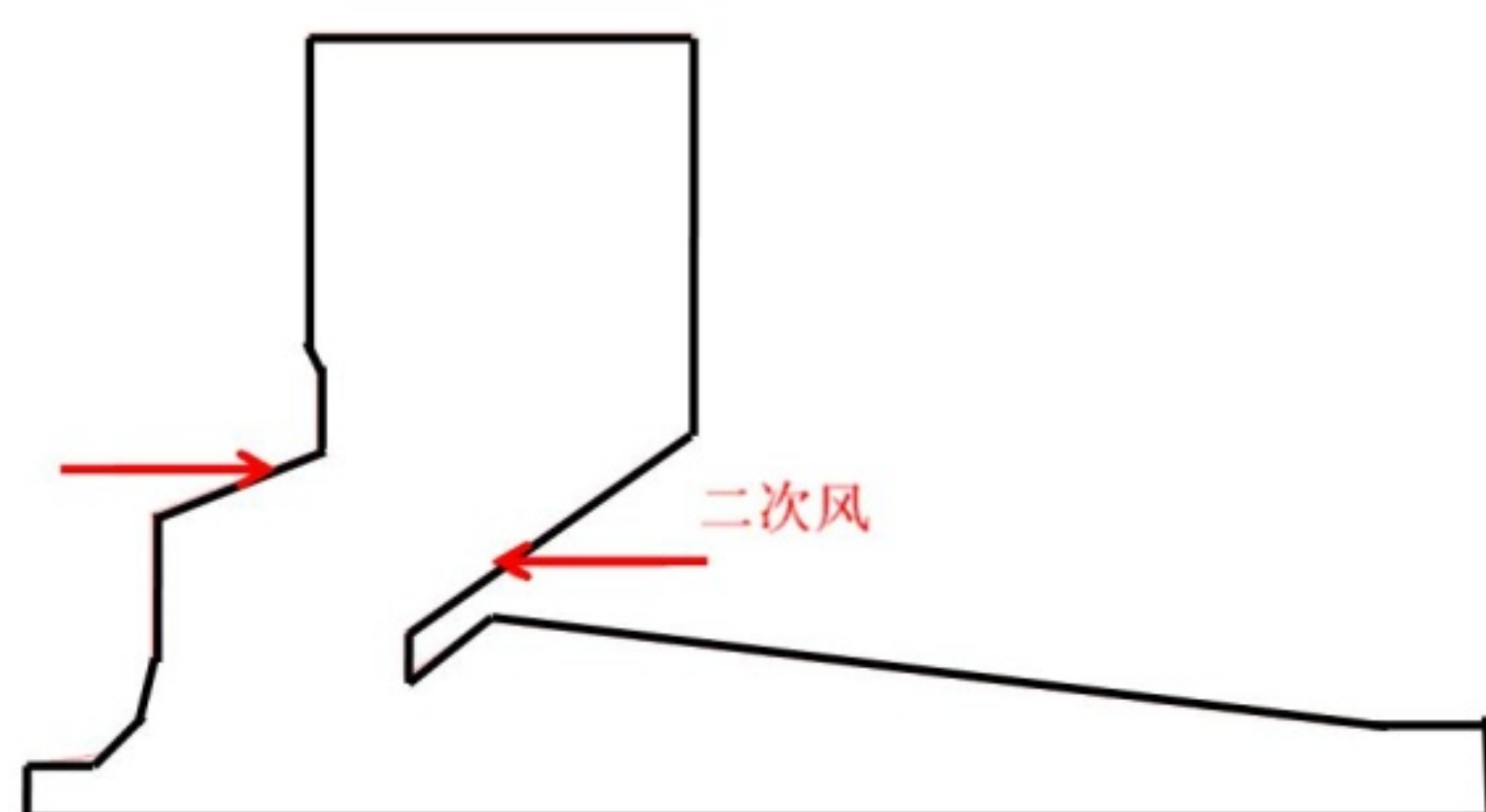


层燃锅炉数值模拟

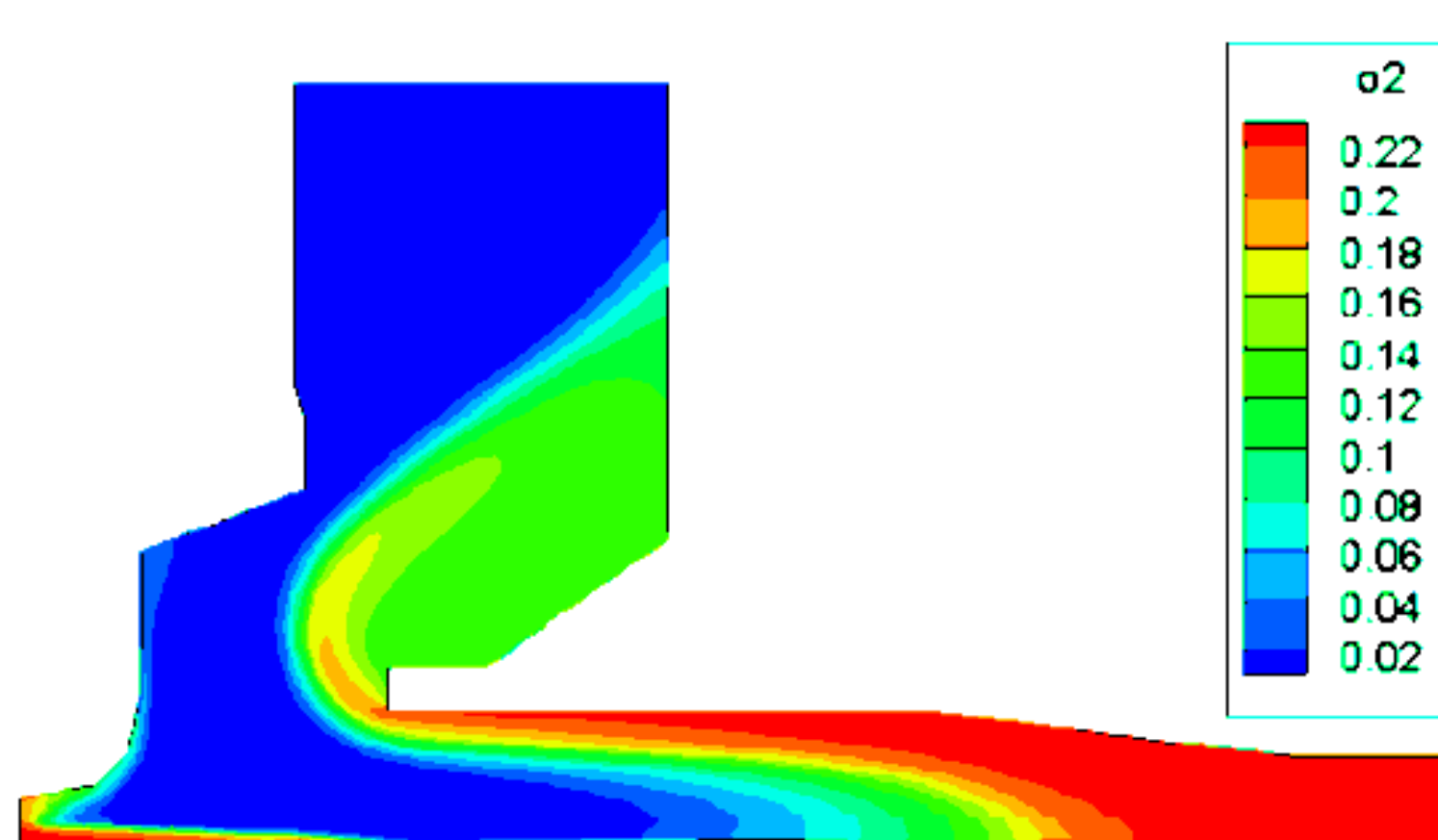
拱风组合新型炉拱系统的数值模拟分析



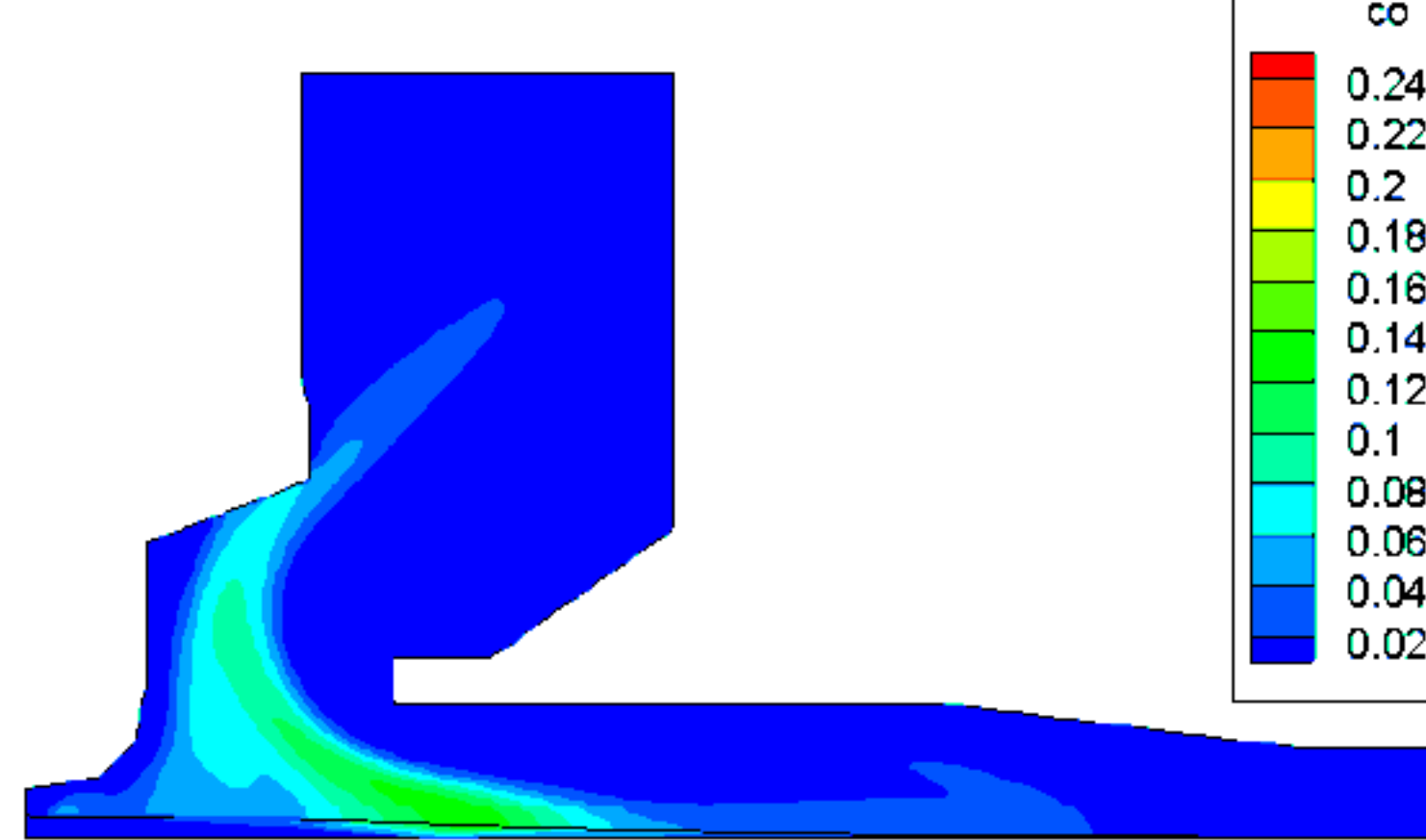
拱风组合新型炉拱系统示意图

1. 人字形后拱的烟气导流作用
2. 高覆盖率炉拱的配风方式
3. 空气分级低NO_x燃烧运行

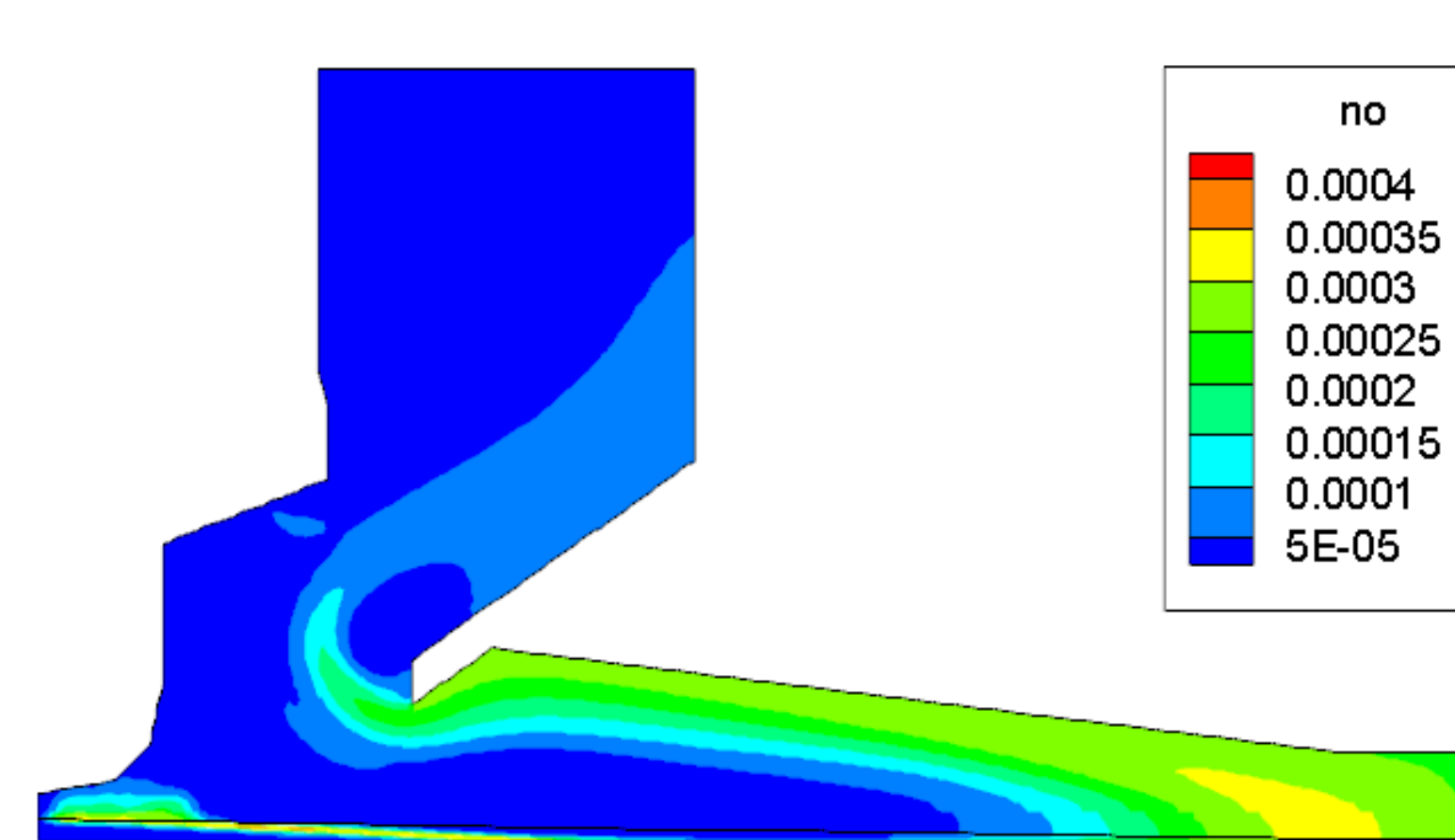
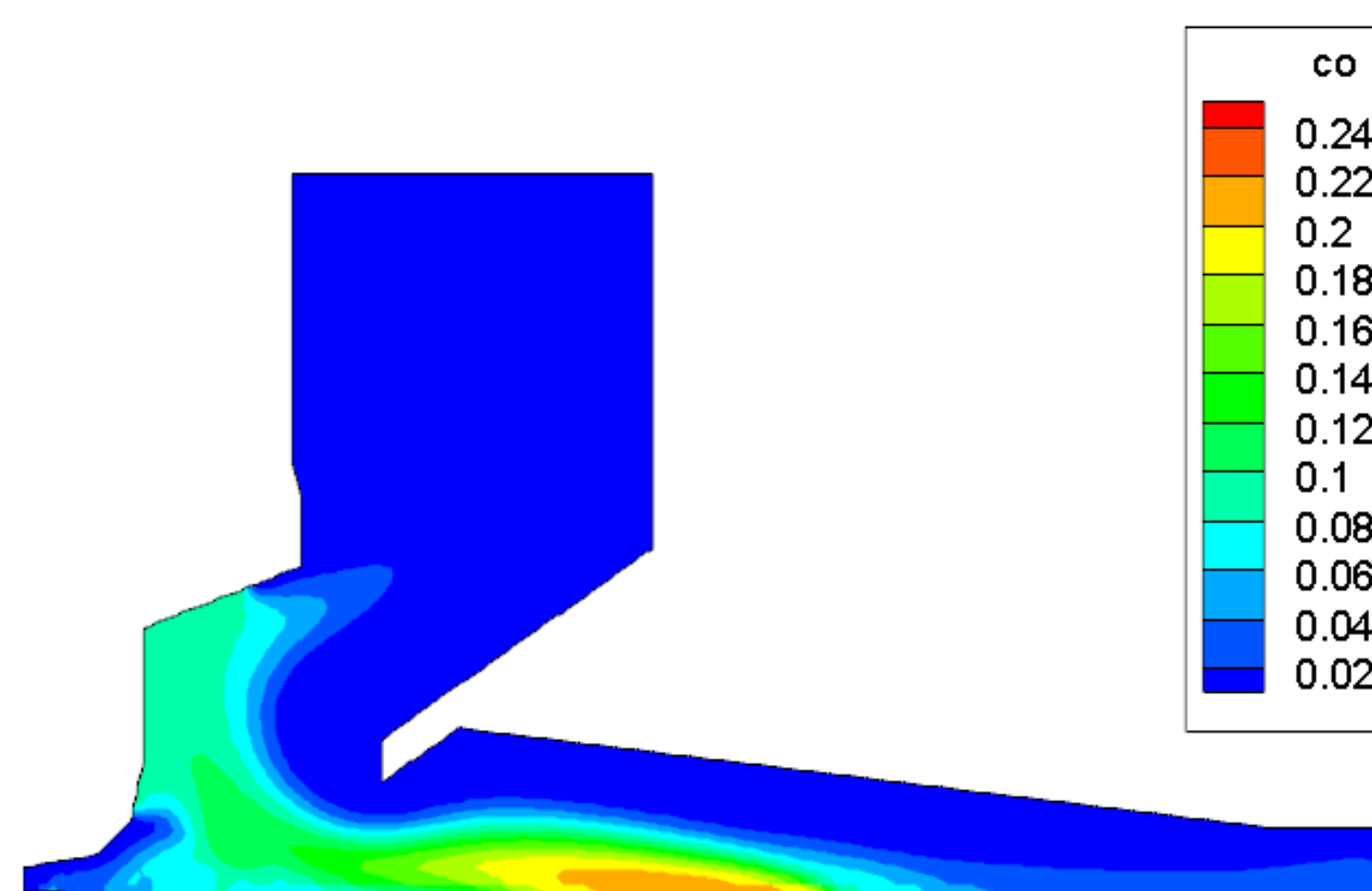
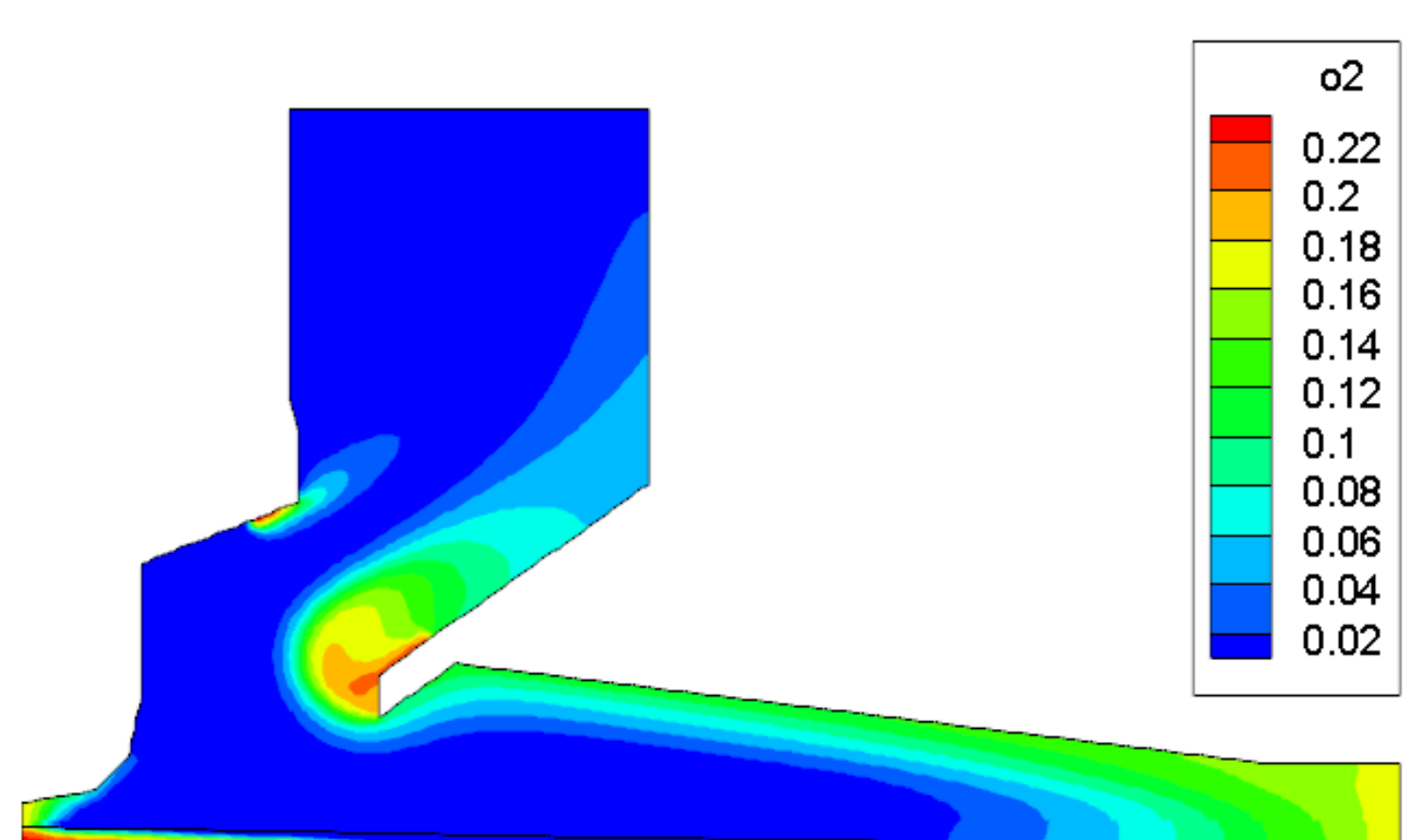
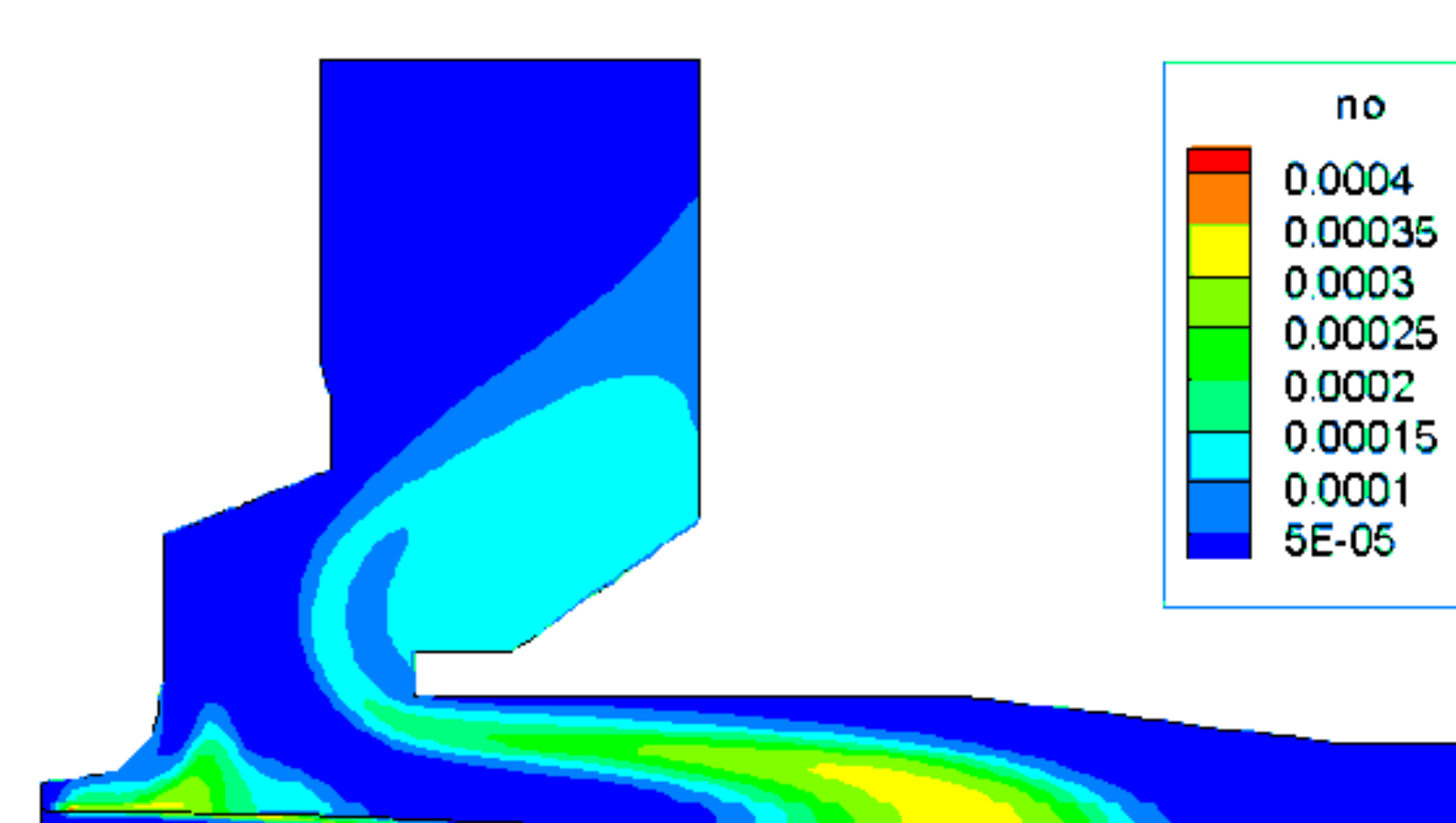
炉膛O₂浓度分布



炉膛CO浓度分布



炉膛NO浓度分布

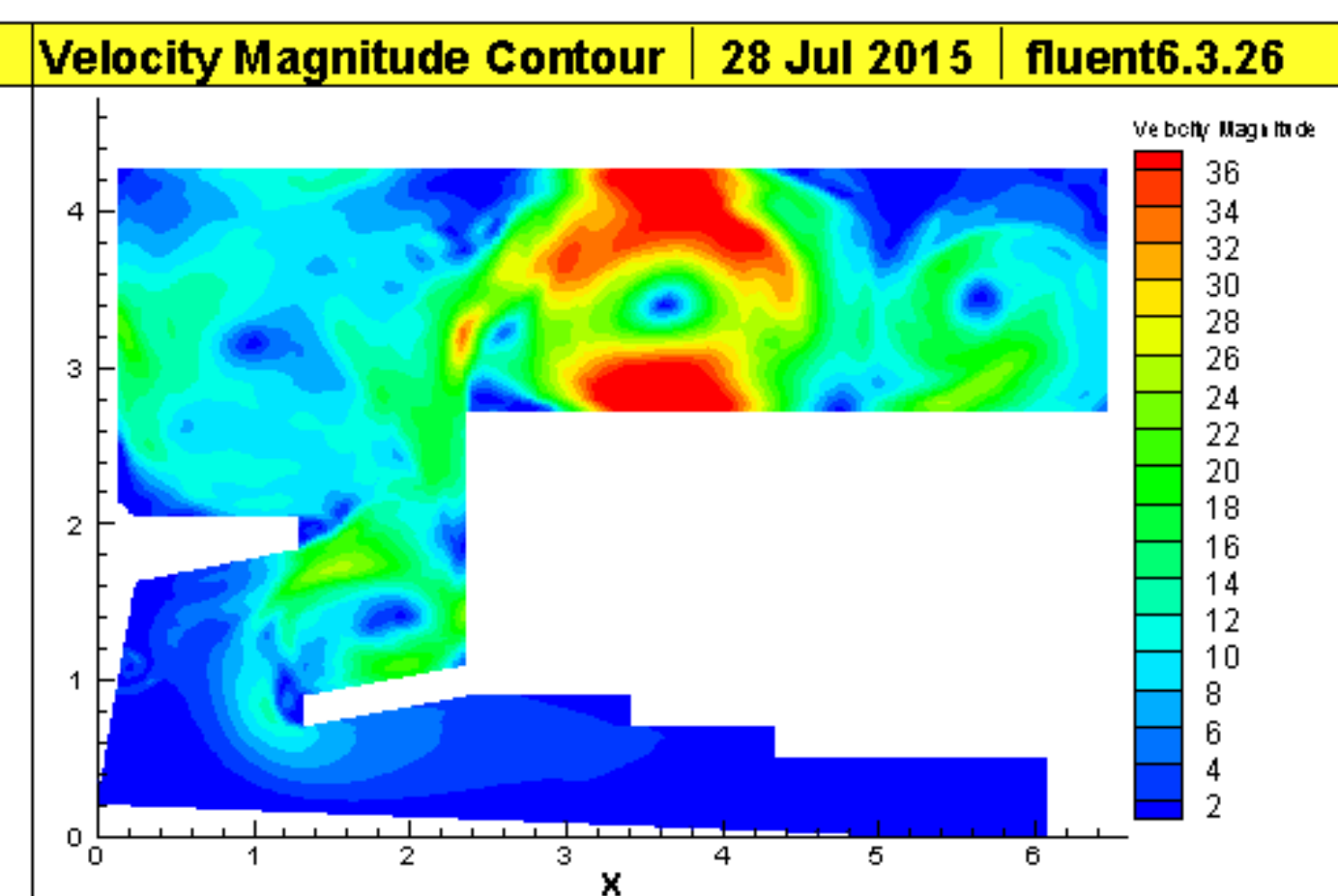
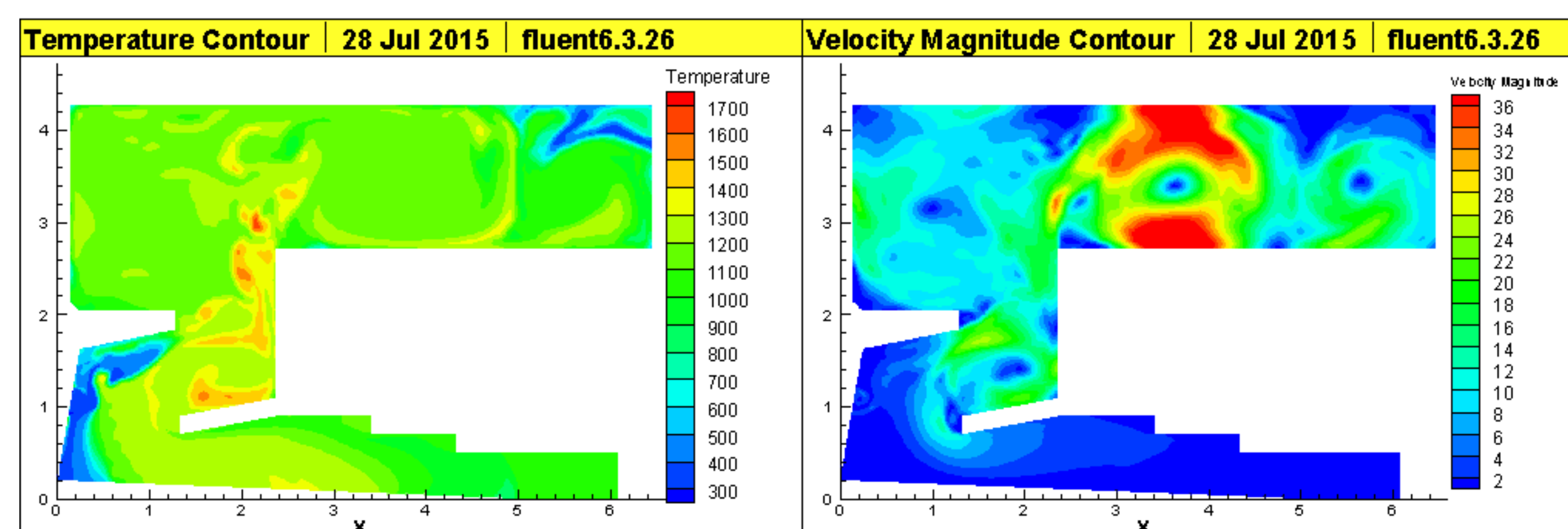
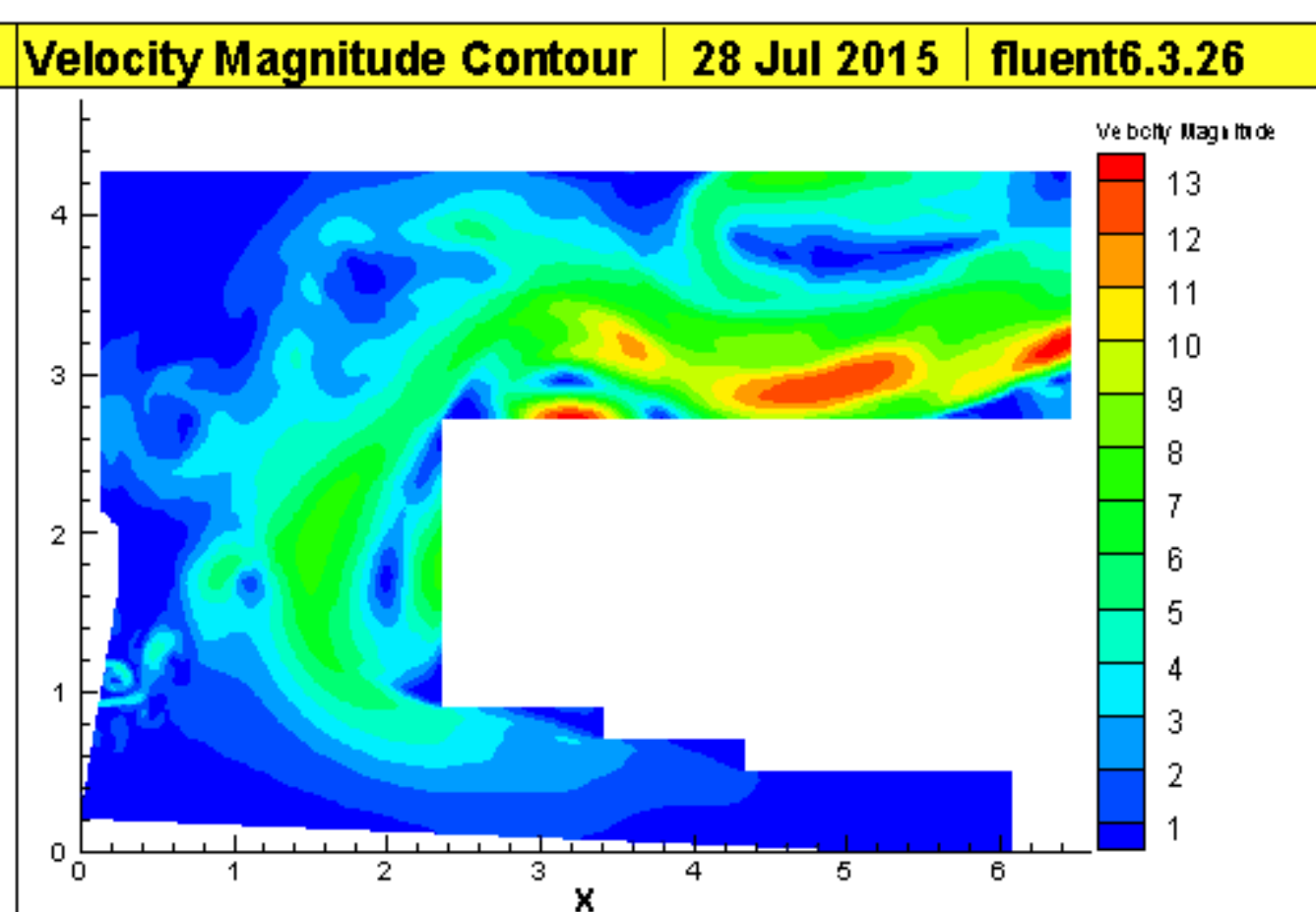
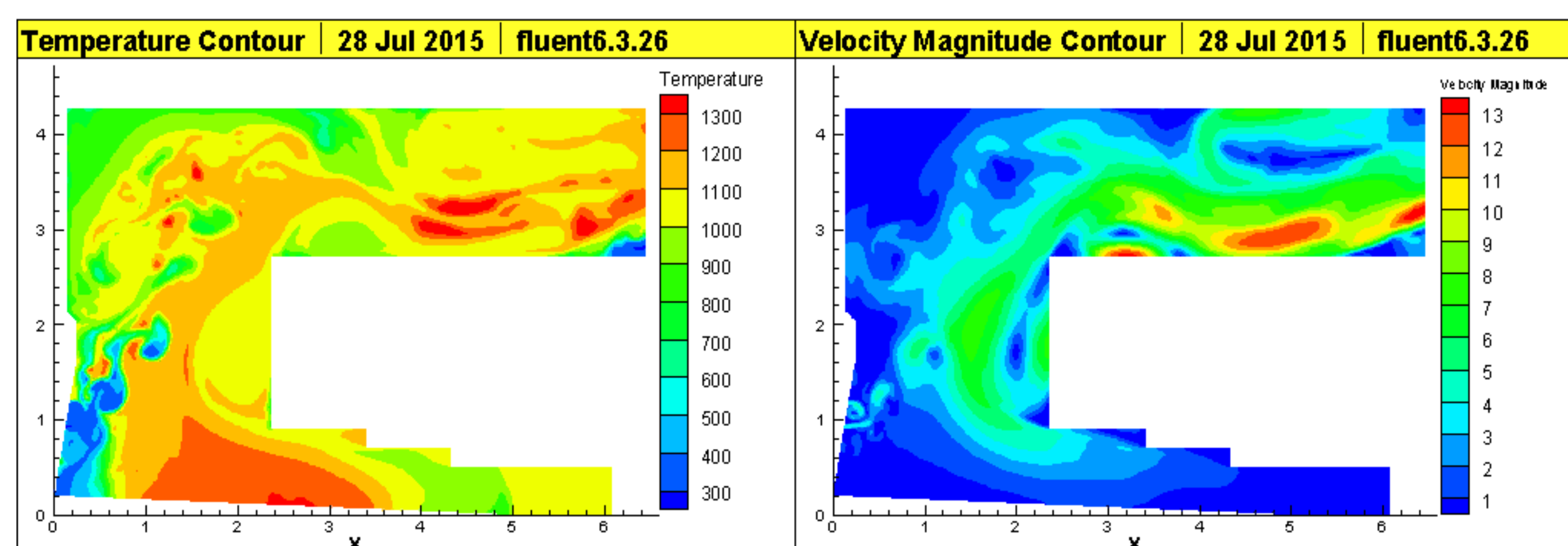
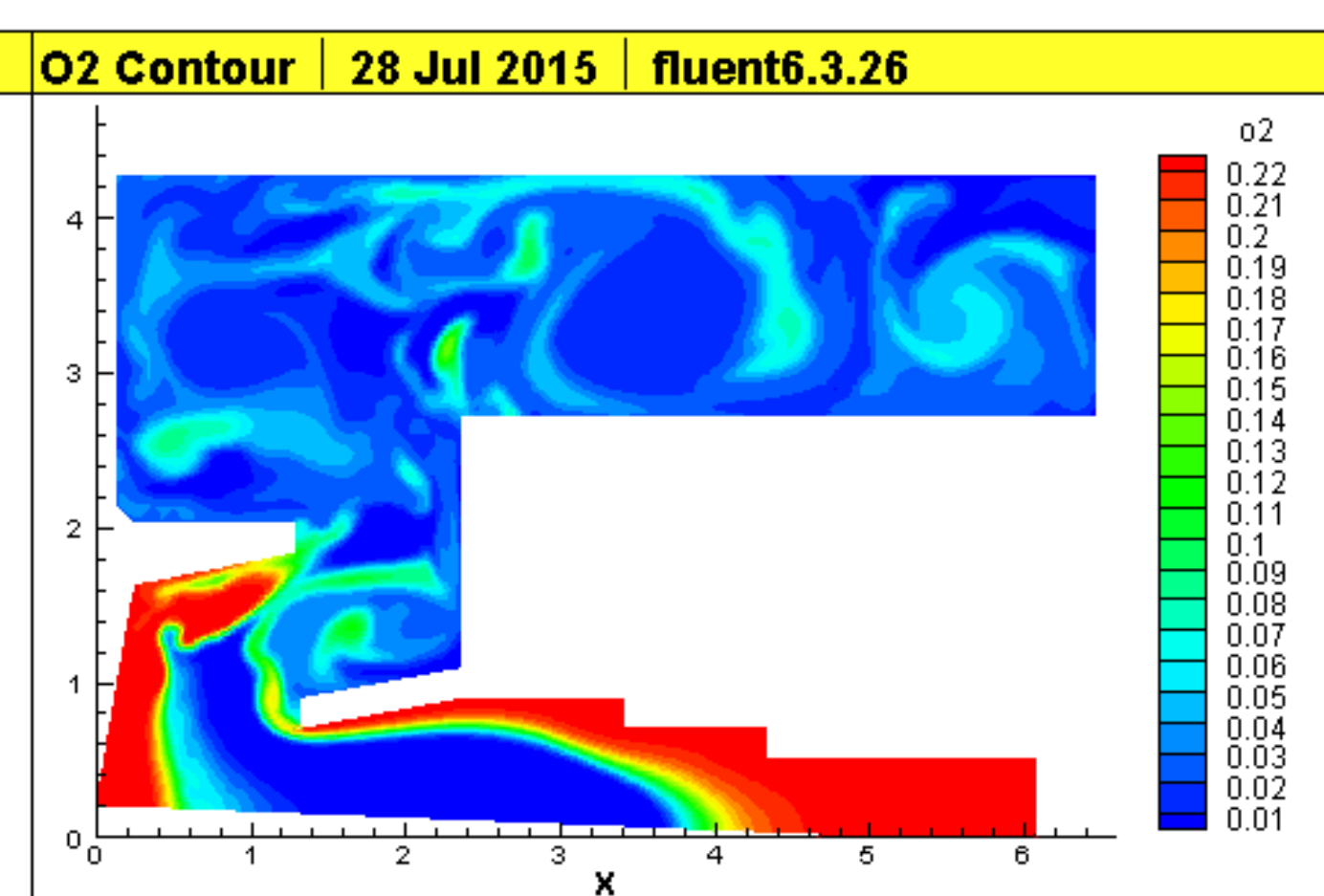
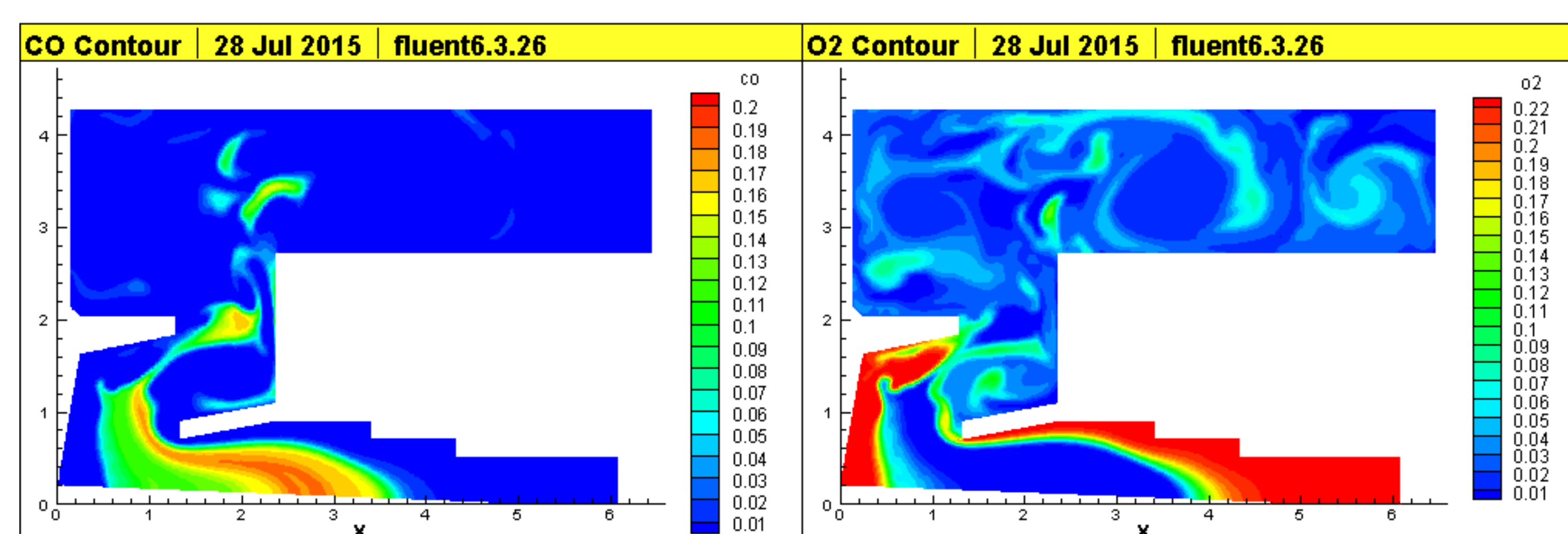
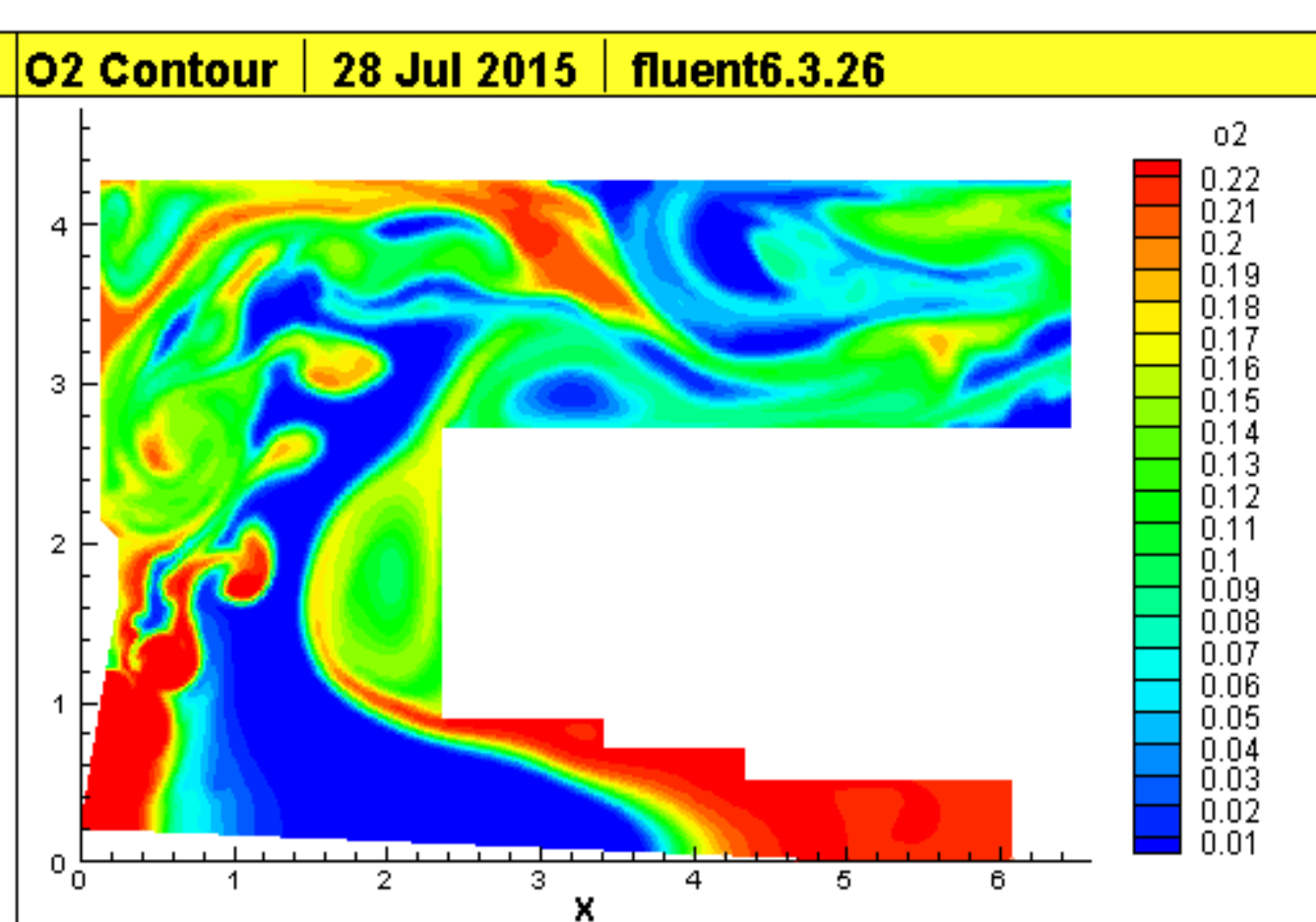
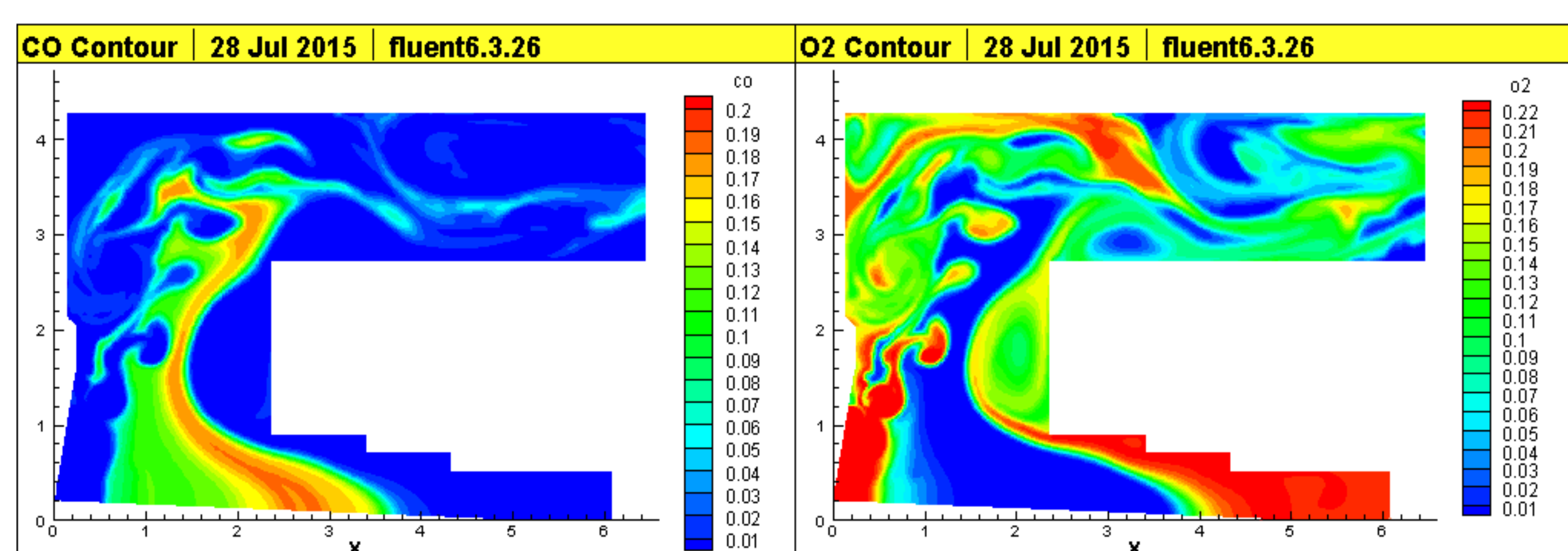


分级燃烧减少床层一次风量，减少尾部冷风，降低炉膛出口氧量，二次风通过强化混合，使可燃气体燃尽。

分级燃烧减少床层风量，增加CO浓度，人字后拱将还原气体导流到前拱，减少前部NO_x。

人字形后拱将床层尾部NO_x导流到前拱下方，与热解区NH₃反应，形成自生的SNCR效果

生物质锅炉之字形炉拱技术



传统炉拱燃烧状况

之字形炉拱燃烧状况