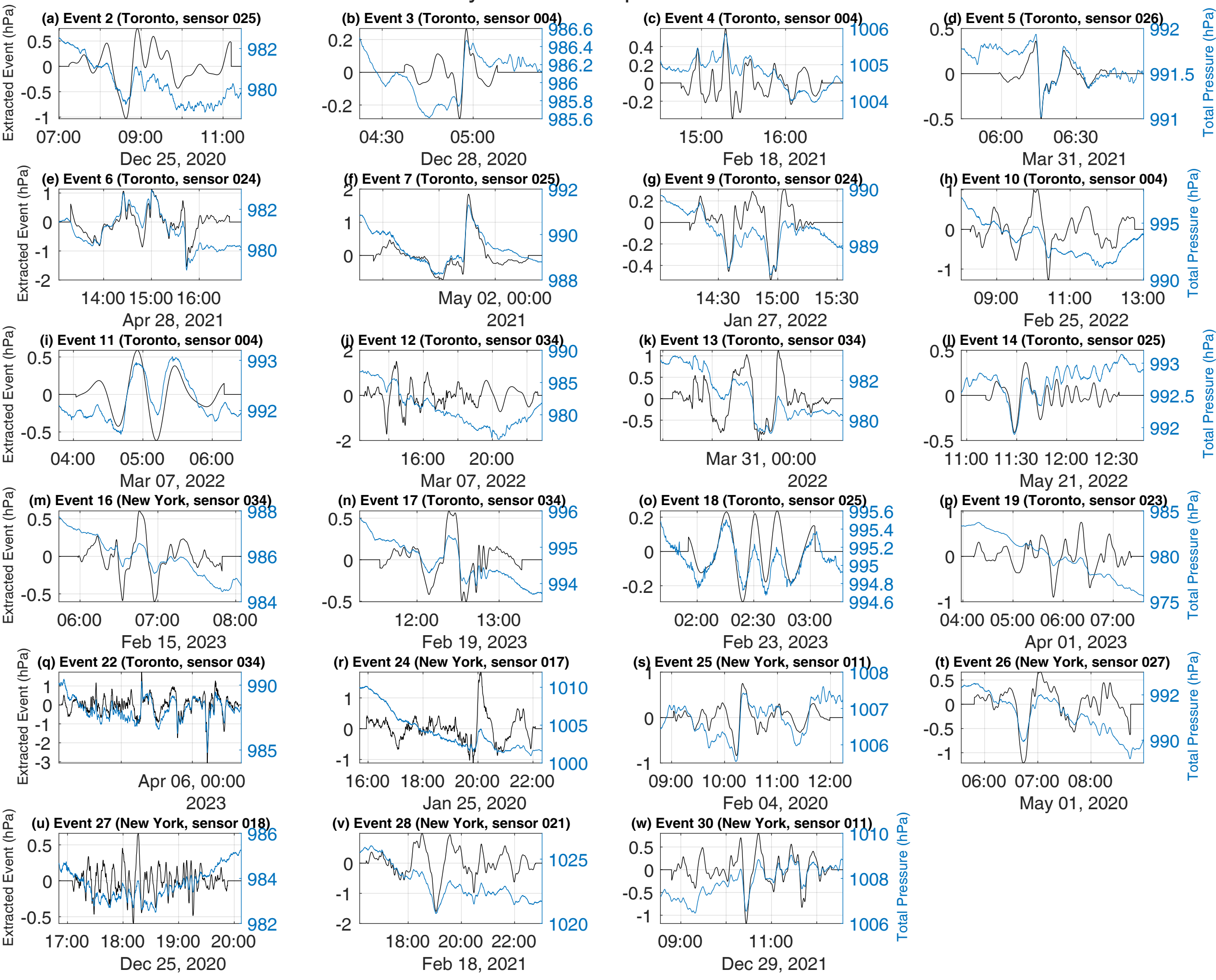Gravity wave event pressure traces