function MATSEDLAB_01(fileName, VarNames, ...
        SimValues, NumVars, time, depth)
for i=1:NumVars,
    MatVals = cell2mat(SimValues(i));
    [m, n] = size(MatVals);
    MatValsWithTime = zeros(m+1, n+1);
    MatValsWithTime(2:m+1,1) = time';
    MatValsWithTime(2:m+1,2:n+1) = MatVals;
    MatValsWithTime(1,2:n+1) = depth;
    MatValsWithTime(1,1) = -1;
    xlswrite(fileName, MatValsWithTime, char(VarNames(i)), 'B2');
end

xlswrite(fileName, time', 'time', 'A1');
xlswrite(fileName, depth', 'depth', 'A1');
end